



*MAHILA VIKAS SANSTHA, WARDHA*

**INDRAPRASTHA NEW ARTS, COMMERCE AND SCIENCE  
COLLEGE WARDHA DIST 442001(M.S)**

*(Affiliated to RTM Nagpur University)*  
*[www.nacscwardha.org](http://www.nacscwardha.org)*

**Student Internal Assessment  
Evaluation Report**



Mahila Vikas Sanstha's

# INDRAPRASTHA NEW ARTS COMMERCE & SCIENCE COLLEGE,

AT POST NALWADI, DIST. WARDHA (M.S.)

Accredited 'B' by NAAC

Approved by government  
of Maharashtra

Affiliated to Rashtrasant Tukadoji  
Maharaj Nagpur University, Nagpur

Recognised by U.G.C New Delhi  
under section 2 (f) & 12 (b) of  
UGC act 1956

Date:19/04/2024

## DECLARATION

This is to declare that the information, reports, true copies and numerical data etc. furnished in this file as supporting documents is verified by IQAC and found correct. Hence this certificate.

**IQAC**

*S. S. Patil*  
Coordinator

Internal Quality Assurance Cell  
Indraprastha New Arts Commerce  
and Science College, Wardha



*[Signature]*  
**Principal**

**PRINCIPAL**  
Indraprastha New Arts, Commerce  
& Science College, WARDHA.



Mahila Vikas Sanstha's

**INDRAPRASTHA NEW ARTS  
COMMERCE & SCIENCE  
COLLEGE,** AT POST HALWADI, DIST. WARDHA (M.S.)

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under section 2 (f) & 12 (b) of  
UGC act 1956

## Student Internal Assessment Evaluation Report

In our college we write from students for internal assignment marks from various departments in the following manner. And for that we give students 20 marks. Some samples for that are as follows.

We make a submission list of each student by the faculty members of each department and take their signature on it. So we get the information about how many students have given the assignment and also we do the evaluation accordingly. This gives the students an idea of the papers coming in the university and helps them to study.



PRINCIPAL

Indraprastha New Arts Commerce  
& Science College, Wardha

**FLOW CHART -MECHANISM OF INTERNAL  
ASSESSMENT**



**TOTAL MARKS = 20**

**TOTAL INTERNAL ASSIGNMENT MARKS DISTRIBUTION**

**ASSIGNMENTS  
(5-Mark)**

**PRESENTATIONS  
(5-Mark)**

**ATTENDANCE  
(5-Marks)**

**OVERALL  
PARTICIPATIONS  
(5-Mark)**

**INDRAPRASTHA NEW ARTS, COMMERCE & SCIENCE COLLEGE, WARDHA**  
**DEPARTMENT OF SOCIAL WORK**

**ASSIGNMENT MARKS**

CLASS :- M.S.W. IV SEM

2022-23

SUBJECT: DISASTER MANAGEMENT

Sr.No.	Name of Students	ATTENDANCE 5	SUBMISSION 5	PRESENTATION 5	VIVA-VOCE INTERACTIO N 5	TOTAL MARKS 20
1	AACHAL KAILASRAO YAWALIKAR	5	5	5	4	19
2	AAKASH PUNDLIKRAO TALWEKAR	5	5	5	5	20
3	ABHISHEK ANIL TAYADE	5	5	4	5	19
4	ACHAL GURUDAS PANBUDE	5	5	5	4	19
5	AJAY TULSHIRAM BHAYMARE	5	4	5	5	19
6	AKASH SUDHAKARRAO MADANKAR	5	5	5	4	19
7	AKSHAY BANDUJI PUNDKAR	5	5	4	5	19
8	ANAMIKA MUKINDA HATAGALE	5	5	4	5	19
9	ANAND RAMESH JAVANJAL	5	5	4	4	18
10	ANIKET ASHOKRAO PARATE	5	5	5	5	20
11	ANJALI RAMESHWAR BOKEY	5	5	5	5	20
12	ANKITA GAJANANRAO NASARE	5	5	4	5	19
13	ANKITA RAJENDRA THOTE	5	5	5	4	19
14	ARUNA SHRIRAM INGALE	5	5	4	5	19
15	ASHA MUNNA RAMPURE	5	5	4	5	19
16	ASHISH DNYANESHWAR LODE	5	5	5	4	19
17	ASHWIN DWARKADAS TAKSANDE	5	5	5	4	19
18	ASHWINI BABARAO CHAMATE	5	5	5	4	19
19	ASHWINI SHANKARRAO GIRI	5	5	4	5	19
20	BHAGYASHRI NARENDRA DESHMUKH	5	5	5	4	19
21	BHAGYASHRI PRABHUNATH SURANDASE	5	5	5	3	18
22	BHARAT ARUNRAO DESHMUKH	5	5	4	4	18
23	BHARTI NATTHUJI MESHRAM	5	5	5	5	20
24	BHARTI VISHWANATH KASAR	5	5	4	5	19
25	BHUMESHWAR DIWAKARRAO SHENDE	5	5	5	3	18
26	BHUMIKA BALU GOLAMBE	5	5	5	4	19
27	BRUHADATTA JAGANRAO PAKHALE	5	5	4	5	19
28	BUDDHABHUSHAN SHAMRAO WATHORE	5	5	4	5	19
29	CHAITALI SUNIL BHENDARKAR	5	5	5	4	19
30	CHANCHAL BHAURAOJI LANJEWAR	5	5	4	5	19
31	DEVANAND SHANKAR KULSANGE	5	5	5	5	20
32	DIKSHA SUDHAKAR THAKARE	5	5	5	4	19
33	DIPALI AMBADAS SHEDMAKE	5	5	4	4	18
34	DIVYA VINAYAK NAGPURKAR	5	5	4	4	18
35	DIVYANI TILOKCHAND SHENDE	5	5	5	3	18

*[Handwritten Signature]*

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**PRINCIPAL**  
 Indraprastha New Arts, Commerce  
 & Science College, WARDHA.

36	DURGA DULSING RATHOD	5	4	4	5	18
37	DURGESH MADHAV NEWARE	5	5	5	3	18
38	GAJANAN WASUDEO SIDAM	5	4	4	5	18
39	GAURAV GURUDAS MADAVI	5	5	5	4	19
40	ISHAN KESHAO POKALE	5	5	4	5	19
41	ISHATA VISHAL LONDHE	5	5	5	4	19
42	JAYSHRI MAROTRAO DHORE	5	5	5	5	20
43	KAJAL DADARAO CHAVHAN	5	5	4	5	19
44	KAPIL GAUTAMRAO MOON	5	5	4	5	19
45	KAVITA LILADHARRAO PANBUDE	5	5	5	4	19
46	KISHOR NAMDEV KHAKARE	5	5	5	4	19
47	KISHORI SUBHASHRAO KANGALE	5	5	4	5	19
48	KOMAL ASHOK MERUGWAR	5	5	5	4	19
49	KOMAL KAILAS WANKHADE	5	5	4	5	19
50	KOMAL SHALIKRAO WAGHADE	5	5	5	4	19
51	KOMAL TOLARAM CHAVHAN	5	4	5	5	19
52	KOYNA MUKINDA HATAGALE	5	5	5	3	18
53	KUNAL PANDURANG PARISE	5	5	4	5	19
54	LAXMI RAGHUNATH KHADKE	5	5	5	3	18
55	MAMATA SANJAY MARASKOLHE	5	5	5	3	18
56	MANGESH SHRIKRUSHNAJI PATILPAIK	5	5	4	5	19
57	MANISHA UTTAMRAO WANKHADE	5	5	4	5	19
58	MANIT RAVINDRA DONGRE	5	5	5	4	19
59	MAYUR RAMESHRAO SAWANT	5	5	5	3	18
60	MRUNALI DATTATRAYRAO BUDE	5	5	4	5	19
61	NAMITA VINOD MESHRAM	5	5	4	5	19
62	NIKHIL CHANDRAKANT MANKAR	5	5	4	5	19
63	NIKITA AANNA CHADHOKAR	5	5	5	4	19
64	NIKITA RAVINDRA HOLEY	5	5	4	5	19
65	NILESH GAUTAM THAMKE	5	5	5	3	18
66	NILESH HARIDAS DHURVE	5	5	5	3	18
67	NILIMA VITTHALRAO KANGATE	5	5	4	5	19
68	NISHA NARESH VAIRAGADE	5	5	4	5	19
69	PAYAL CHAKRADHAR KANHERKAR	5	5	4	4	18
70	PAYAL NAGORAO BHOMALE	5	5	5	4	19
71	PAYAL SUNIL KURVE	5	5	5	4	19
72	POOJA ASHOK KHADSE	5	5	5	4	19
73	POOJA YADAV TIRPUDE	5	5	5	3	18
74	PRACHI RAJU CHAUDHARI	5	5	5	4	19
75	PRAGATI HARIBHAU MAHALLE	5	5	5	4	19
76	PRANJALI UTTAMRAO NAKHALE	5	5	4	5	19
77	PRATIBHA BHAGWANJI BHONGADE	5	5	4	5	19
78	PRATIKSHA VINODRAO KHADSE	5	5	5	4	19
79	PRITESH VINODRAO KHADSE	5	5	4	5	19

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**PRINCIPAL**  
 Indraprastha Group of Institutions, Commerce  
 & Science College, WARDHA.

80	RAHUL DATTA KANTESHWAR	5	5	4	5	19
81	RAXHI RAMESH KULSANGE	5	5	5	4	19
82	RAVINDRA DNYANESHWAR SAHARE	5	5	4	5	19
83	RAVINDRA WASUDEO JADHAD	5	5	5	4	19
84	RINA PRAMODRAO WANKHEDE	5	5	5	4	19
85	ROHAN HANUMAN GHUME	5	5	4	5	19
86	RUPESH SHRIKRUSHNA NANDANE	5	5	5	3	18
87	RUTUJA ANANDRAO ATAKAR	5	5	4	5	19
88	RUTWIK RAJENDRA KOLHE	5	5	4	5	19
89	SACHIN AMBADAS SHEJAO	5	5	4	4	18
90	SACHIN RAMESH CHAVHAN	5	5	4	5	19
91	SAGAR KISHORRAO GIRDE	5	5	4	5	19
92	SAGAR LAXMANRAO PAYGHAN	5	5	5	4	19
93	SAHIL SUDHIR PETHE	5	4	5	4	18
94	SAMMOHI DILIPRAO KOHALE	5	5	5	4	19
95	SAVITA DASHRAT AAHAKE	5	5	5	3	18
96	SHIVANI BHASKAR GIRI	5	5	5	4	19
97	SHIVANI PRABHAKAR BHOYAR	5	5	5	4	19
98	SHIVANI WAMANRAO NAITAM	5	5	5	3	18
99	SHIWANI SUDHAKAR KURSANGE	5	5	5	3	18
100	SHOBHANA PRABHAKARRAO MOHURLE	5	5	5	4	19
101	SHUBHAM DILIPRAO CHAUDHARI	5	5	5	4	19
102	SHUBHAM GUNVANT BHAVEKAR	5	5	5	4	19
103	SHUBHAM RAJENDRA KECHE	5	5	5	3	18
104	SHUBHAM VILAS BAHALE	5	5	5	3	18
105	SHWETA GAJANAN BAMBAL	5	5	5	4	19
106	SHWETA GAJANAN KALE	5	5	4	5	19
107	SUCHITA GOJENDRA CHIMURKAR	5	5	4	5	19
108	SUJATA DILIPRAO GOLHAR	5	5	5	3	18
109	SUMEDH RAMKRUSHNA GUJAR	5	5	5	3	18
110	SURAJ KISANRAO INGOLE	5	5	5	4	19
111	SUSHMIT MAHENDRA WANKHEDE	5	5	5	4	19
112	SWAPNIL RAMRAO WARHADE	5	5	4	5	19
113	SWAPNIL ZANAKRAO NAPTE	5	5	5	3	18
114	TAHIR FARUK DUNGE	5	5	5	4	19
115	UMESH PRAMOD WAGHAMODE	5	5	5	4	19
116	VAIBHAV CHANDRABHANJI MEGHARE	5	5	5	4	19
117	VAIBHAV GAJANANRAO MANDADE	5	5	5	4	19
118	VAISHALI DNYANESHWAR GADGE	5	5	5	4	19
119	VAISHNAV ANIL RAUT	5	5	5	3	18
120	VAISHNAVI DHANRAJ SURSAUT	5	5	5	4	19
121	VAISHNAVI VILASRAO WADE	5	5	5	4	19
122	VANITA RAJENDRA DHONGADE	5	5	5	4	19
123	VASANTIKA KISHOR GOMASE	5	5	4	5	19




PRINCIPAL  
Indraprastha (Int. A.T. Commerce  
& Science) College, WARJHA.

124	VINIT WASUDEORAO SONKUSARE	S	S	H	S	19
125	VIRAJ HEMRAJ KATHOTE	S	S	S	4	19
126	VISHAL HARIDAS SHINDODE	S	S	S	4	19
127	WANITA SUDHAKARRAO RATHOD	S	S	S	4	19
128	CHANDAN RAJU KALE	S	S	S	4	19
129	SONALI BHAGYAWAN BHAGAT	S	S	S	4	19

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**PRINCIPAL**  
Indraprastha (Dev. Arts, Commerce  
& Science) College, WARDHA



INDRAPRASTHA NEW ARTS, COMMERCE & SCIENCE COLLEGE, WARDHA

DEPARTMENT OF SOCIAL WORK

ASSIGNMENT SIGNATURE

2022-23

CLASS :- M.S.W. IV SEM

SUBJECT: Disaster Management

Sr.No.	Name of Students	Singature
1	AACHAL KAILASRAO YAWALIKAR	A Yawalikar
2	AAKASH PUNDLIKRAO TALWEKAR	Aakash
3	ABHISHEK ANIL TAYADE	Abhishek
4	ACHAL GURUDAS PANBUDE	Achal
5	AJAY TULSHIRAM BHAYMARE	Ajay
6	AKASH SUDHAKARRAO MADANKAR	Akash
7	AKSHAY BANDUJI PUNDKAR	Akshay
8	ANAMIKA MUKINDA HATAGALE	Anamika
9	ANAND RAMESH JAVANJAL	Anand
10	ANIKET ASHOKRAO PARATE	Aniket
11	ANJALI RAMESHWAR BOKEY	A. Boke
12	ANKITA GAJANANRAO NASARE	Ankita
13	ANKITA RAJENDRA THOTE	Ankita
14	ARUNA SHRIRAM INGALE	Aruna
15	ASHA MUNNA RAMPURE	Asha
16	ASHISH DNYANESHWAR LODE	Ashish
17	ASHWIN DWARKADAS TAKSANDE	A. Thaksande.
18	ASHWINI BABARAO CHAMATE	A. Chat.
19	ASHWINI SHANKARRAO GIRI	Ashwini
20	BHAGYASHRI NARENDRA DESHMIKH	B. D.
21	BHAGYASHRI PRABHUNATH SURANDASE	Bhagshri
22	BHARAT ARUNRAO DESHMIKH	B. Deshmikh
23	BHARTI NATTHUJI MESHRAM	B. Meshram
24	BHARTI VISHWANATH KASAR	Bharti
25	BHUMESHWAR DIWAKARRAO SHENDE	B.D. shende
26	BHUMIKA BALU GOLAMBE	B. Golambe
27	BRUHADATTA JAGANRAO PAKHALE	B. Pakhale.
28	BUDDHABHUSHAN SHAMRAO WATHORE	B. Wathore
29	CHAITALI SUNIL BHENDARKAR	C. Bhendes.
30	CHANCHAL BHOURAOJI LANJEWAR	Chanchal
31	DEVANAND SHANKAR KULSANGE	D.S. Kulsange
32	DIKSHA SUDHAKAR THAKARE	D. Thakare
33	DIPALI AMBADAS SHEDMAKE	D. Shedmake
34	DIVYA VINAYAK NAGPURKAR	D. Nagpurkar
35	DIVYANI TILOKCHAND SHENDE	D. Shende
36	DURGA DULSING RATHOD	D. Rathod
37	DURGESH MADHAV NEWARE	D. Neware

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PRINCIPAL  
Indraprastha New Arts, Commerce  
& Science College, WARDHA.

38	GAJANAN WASUDEO SIDAM	Sidam
39	GAURAV GURUDAS MADAVI	Gurudavi
40	ISHAN KESHAO POKALE	Esheun
41	ISHATA VISHAL LONDHE	I. I.
42	JAYSHRI MAROTRAO DHORE	J. Dhore
43	KAJAL DADARAO CHAVHAN	K. Chavhan
44	KAPIL GAUTAMRAO MOON	K. G. Moon.
45	KAVITA LILADHARRAO PANBUDE	Kavita.
46	KISHOR NAMDEV KHAKARE	Kishor.
47	KISHORI SUBHASHRAO KANGALE	Kangle.
48	KOMAL ASHOK MERUGWAR	Komal.
49	KOMAL KAILAS WANKHADE	K. Wankhade.
50	KOMAL SHALIKRAO WAGHADE	K. Waghade.
51	KOMAL TOLARAM CHAVHAN	K.C.
52	KOYNA MUKINDA HATAGALE	K. Hatagale
53	KUNAL PANDURANG PARISE	Kunal P.
54	LAXMI RAGHUNATH KHADKE	L. Khadke
55	MAMATA SANJAY MARASKOLHE	Mamata
56	MANGESH SHRIKRUSHNAJI PATILPAIK	Mangesh.
57	MANISHA UTTAMRAO WANKHADE	Manisha. W.
58	MANIT RAVINDRA DONGRE	Manit. Dongre
59	MAYUR RAMESHRAO SAWANT	M. Sawant
60	MRUNALI DATTATRAYRAO BUDE	M. Meshram.
61	NAMITA VINOD MESHARAM	N. Meshram
62	NIKHIL CHANDRAXANT MANKAR	Nikhil
63	NIKITA AANNA CHADHOKAR	N. Ch.
64	NIKITA RAVINDRA HOLEY	N. H.
65	NILESH GAUTAM THAMKE	Nilesh.
66	NILESH HARIDAS DHURVE	Nilesh. D.
67	NILIMA VITTHALRAO KANGATE	Nilima.
68	NISHA NARESH VAIRAGADE	Nisha. V.
69	PAYAL CHAKRADHAR KANHERKAR	Payal.
70	PAYAL NAGORAO BHOMALE	P. Bhomale
71	PAYAL SUNIL KURVE	P. Kurve
72	POOJA ASHOK KHADSE	P. Khadse
73	POOJA YADAV TIRPUDE	Pooja
74	PRACHI RAJU CHAUDHARI	P. Chaudhari
75	PRAGATI HARIBHAU MAHALLE	P. H. Mahalle
76	PRANALI UTTAMRAO NAKHALE	Pranali.
77	PRATIBHA BHAGWANJI BHONGADE	Bhongade
78	PRATIKSHA VINODRAO KHADSE	P. K.
79	PRITESH VINODRAO KHADSE	Pritesh
80	RAHUL DATTA KANTESHWAR	Rahul.
81	RAKHI RAMESH KULSANGE	R. Kulsange

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PRINCIPAL  
Indraprestha New Arts, Commerce  
& Science College, WARDHA.

82	RAVINDRA DNYANESHWAR SAHARE	<del>R. Sahare</del>
83	RAVINDRA WASUDEO JADHAO	R. Jadhao.
84	RINA PRAMODRAO WANKHEDE	R. Wankhede
85	ROHAN HANUMAN GHUME	R. Ghume.
86	RUPESH SHRIKRUSHNA NANDANE	R. Nandane.
87	RUTUJA ANANDRAO ATAKAR	R. A.
88	RUTWIK RAJENDRA KOLHE	Rutwik.
89	SACHIN AMBADAS SHEJAO	Sachin.
90	SACHIN RAMESH CHAVHAN	S. Chavhan.
91	SAGAR KISHORRAO GIRDE	S. Girde
92	SAGAR LAXMANRAO PAYGHAN	S. Payghan.
93	SAHIL SUDHIR PETHE	Sahil. P.
94	SAMMOHI DILIPRAO KOHALE	Sammohi. w.
95	SAVITA DASHRAT AHAKE	Savita.
96	SHIVANI BHASKAR GIRI	S. Giri
97	SHIVANI PRABHAKAR BHOYAR	S. Bhojar.
98	SHIVANI WAMANRAO NAITAM	S. Naitam.
99	SHIWANI SUDHAKAR KURSANGE	S. Kursange.
100	SHOBHANA PRABHAKARRAO MOHURLE	Shobhana.
101	SHUBHAM DILIPRAO CHAUDHARI	Shubham.
102	SHUBHAM GUNVANT BHAVEKAR	S. Bhavekar.
103	SHUBHAM RAJENDRA KECHE	S. R. Kechhe
104	SHUBHAM VILAS BAHALE	Shubham.
105	SHWETA GAJANAN BAMBAL	Shubhamgatal.
106	SHWETA GAJANAN KALE	Shwetakale
107	SUCHITA GOJENDRA CHIMURKAR	Schimurkar.
108	SUJATA DILIPRAO GOLHAR	S. Chimur.
109	SUMEDH RAMKRUSHNA GUJAR	Sujata. G.
110	SURAJ KISANRAO INGOLE	S. Ingole.
111	SUSHMIT MAHENDRA WANKHEDE	Sushmit.
112	SWAPNIL RAMRAO WARHADE	S. Warahde.
113	SWAPNIL ZANAKRAO NAPTE	S. Napte.
114	TAHIR FARUK DUNGE	T. D.
115	UMESH PRAMOD WAGHAMODE	Umesh. W.
116	VAIBHAV CHANDBRABHANJI MEGHARE	V. Meghse.
117	VAIBHAV GAJANANRAO MANDADE	Vaibhav.
118	VAISHALI DNYANESHWAR GADGE	Vaishali.
119	VAISHNAV ANIL RAUT	Vaishnav.
120	VAISHNAVI DHANRAJ SURSAUT	V. sursaut.
121	VAISHNAVI VILASRAO WADE	Vaishnavi. G.
122	VANITA RAJENDRA DHONGADE	Vanita. D.
123	VASANTIKA KISHOR GOMASE	V. gomase.
124	VINIT WASUDEORAO SONKUSARE	Vinit
125	VIRAJ HEMRAJ KATHOTE	Viraj

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PRINCIPAL  
Indraprastha New Arts, Commerce  
& Science College, WARORA.

126	VISHAL HARIDAS SHINDODE	V. Shindode
127	WANITA SUDHAKARRAO RATHOD	W. Rathod
128	CHANDAN RAJU KALE	(Kale)
129	SONALI BHAGYAWAN BHAGAT	<del>Bhagat</del>

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PRINCIPAL  
Indraprastha New Arts, Commerce  
& Science College, WARDHA.

**INDRAPRASTHA NEW ARTS, COMMERCE & SCIENCE COLLEGE, WARDHA**  
**DEPARTMENT OF SOCIAL WORK**

**ASSIGNMENT MARKS**

CLASS :- M.S.W. I SEM

SUBJECT : Tribal Development & Governance <sup>2022-23</sup>

Sr.No	Name of Students	ATTENDANCE 5	SUBMISSION 5	PRESENTATI ON 5	VIVA- VOCE INTERACTI ON 5	TOTAL MARKS 20
1	ACHAL GURUDAS PANBUDE	5	5	5	4	19
2	AKASH SUDHAKARRAO MADANKAR	5	5	4	5	19
3	ANAND RAMESH JAVANJAL	5	5	5	3	18
4	ANIKET ASHOKRAO PARATE	5	5	4	5	19
5	ANKITA RAJENDRA THOTE	5	5	5	4	19
6	ARUNA SHRIRAM INGALE	5	4	5	5	19
7	ASHA MUNNA RAMPURE	5	5	4	5	19
8	ASHISH DNYANESHWAR LODE	5	5	5	4	19
9	ASHWIN DWARKADAS TAKSANDE	5	5	5	4	19
10	BHARAT ARUNRAO DESHMUKH	5	5	4	5	19
11	BHARTI NATTHUJI MESHRAM	5	5	5	5	20
12	BHUMESHWAR DIWAKARRAO SHENDE	5	5	4	5	19
13	BUDDHABHUSHAN SHAMRAO WATHORE	5	5	4	5	19
14	CHAITALI SUNIL BHENDARKAR	5	5	5	4	19
15	DEVANAND SHANKAR KULSANGE	5	5	5	5	20
16	DIPALI AMBADAS SHEDMAKE	5	5	5	4	19
17	DIVYANI TILOKCHAND SHENDE	5	4	5	5	19
18	JAYSHRI MAROTRAO DHORE	5	5	5	5	20
19	KAPIL GAUTAMRAO MOON	5	4	5	5	19
20	KAVITA LILADHARRAO PANBUDE	5	5	4	5	19
21	KISHOR NAMDEV KHAKARE	5	5	4	4	18
22	KISHORI SUBHASHRAO KANGALE	5	4	5	4	18
23	MANIT RAVINDRA DONGRE	5	4	4	5	18
24	MAYUR RAMESHRAO SAWANT	5	5	4	4	18
25	NAMITA VINOD MESHRAM	5	5	4	4	18
26	NILESH GAUTAM THAMKE	5	5	5	4	19
27	NILESH HARIDAS DHURVE	5	5	4	5	19
28	NILIMA VITTHALRAO KANGATE	5	5	5	4	19
29	PAYAL NAGORAO BHOMALE	5	5	4	5	19
30	PAYAL SUNIL KURVE	5	5	4	5	19
31	POOJA ASHOK KHADSE	5	5	5	4	19
32	POOJA YADAV TIRPUDE	5	5	4	5	19
33	PRAGATI HARIBHAU MAHALLE	5	5	4	5	19
34	PRATIBHA BHAGWANJI BHONGADE	5	5	5	4	19
35	RAHUL DATTA KANTESHWAR	5	5	4	5	19
36	RAKHI RAMESH KULSANGE	5	5	5	4	19
37	RAVINDRA DNYANESHWAR SAHARE	5	5	5	3	18
38	RINA PRAMODRAO WANKHEDE	5	5	5	4	19

*[Signature]*

*[Signature]*

**PRINCIPAL**  
 Indraprastha New Arts, Commerce  
 & Science College, WARDHA.

39	SACHIN AMBADAS SHEJAO	5	4	5	5	19
40	SAGAR KISHORRAO GIRDE	5	5	4	5	19
41	SAGAR LAXMANRAO PAYGHAN	5	5	4	5	19
42	SAVITA DASHRAT AAHAKE	5	5	5	4	19
43	SHIVANI BHASKAR GIRI	5	5	5	4	19
44	SHOBHANA PRABHAKARRAO MOHURLE	5	5	4	5	19
45	SHUBHAM GUNVANT BHAVEKAR	5	5	5	4	19
46	SHUBHAM RAJENDRA KECHE	5	5	4	5	19
47	SHUBHAM VILAS BAHALE	5	5	4	5	19
48	SHWETA GAJANAN KALE	5	5	4	5	19
49	SUCHITA GOJENDRA CHIMURKAR	5	5	5	4	19
50	SWAPNIL RAMRAO WARHADE	5	4	4	5	18
51	TAHIR FARUK DUNGE	5	5	5	3	18
52	VAISHNAV ANIL RAUT	5	5	4	4	18
53	VASANTIKA KISHOR GOMASE	5	5	5	4	19
54	VINIT WASUDEORAO SONKUSARE	5	5	4	5	19
55	VIRAJ HEMRAJ KATHOTE	5	5	5	4	19
56	VISHAL HARIDAS SHINDODE	5	5	4	5	19

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PRINCIPAL  
Indraprastha Univ. Arts, Commerce  
& Science College, WANURIA

INDRAPRASTHA NEW ARTS, COMMERCE & SCIENCE COLLEGE, WARDHA  
DEPARTMENT OF SOCIAL WORK

ASSIGNMENT ATTENDANCE

CLASS :- M.S.W. IV SEM

2022-23

SUBJECT: Tribal development & coverage

Sr.No.	Name of Students	Signature
1	ACHAL GURUDAS PANBUDE	Achal
2	AKASH SUDHAKARRAO MADANKAR	Aakash
3	ANAND RAMESH JAVANJAL	Anand
4	ANIKET ASHOKRAO PARATE	Aniket
5	ANKITA RAJENDRA THOTE	Ankita Thote
6	ARUNA SHRIRAM INGALE	Aruna
7	ASHA MUNNA RAMPURE	Asha
8	ASHISH DNYANESHWAR LODE	Ashish Lode
9	ASHWIN DWARKADAS TAKSANDE	A. Thakande.
10	BHARAT ARUNRAO DESHMUKH	B. Deshmukh
11	BHARTI NATTHUJI MESHRAM	B. Meshram
12	BHUMESHWAR DIWAKARRAO SHENDE	B.D. Shende
13	BUDDHABHUSHAN SHAMRAO WATHORE	B. Wathore
14	CHAITALI SUNIL BHENDARKAR	C. Bhendarkar
15	DEVANAND SHANKAR KULSANGE	D.S. Kulsange
16	DIPALI AMBADAS SHEDMAKE	D. Shedmake
17	DIVYANI TILOKCHAND SHENDE	D. Shende
18	JAYSHRI MAROTRAO DHORE	J. Dhore
19	KAPIL GAUTAMRAO MOON	K.G. Moon.
20	KAVITA LILADHARRAO PANBUDE	K.L.P.
21	KISHOR NAMDEV KHAKARE	K. Khakare
22	KISHORI SUBHASHRAO KANGALE	K. Kangale
23	MANIT RAVINDRA DONGRE	M. Dongre
24	MAYUR RAMESHRAO SAWANT	M. Sawant
25	NAMITA VINOD MESHRAM	N. Meshram
26	NILESH GAUTAM THAMKE	N. Thamke
27	NILESH HARIDAS DHURVE	N. Dhurve
28	NILIMA VITTHALRAO KANGATE	N. Kangate
29	PAYAL NAGORAO BHOMALE	P. Bhomale
30	PAYAL SUNIL KURVE	P. Kurve
31	POOJA ASHOK KHADSE	P. Khadse
32	POOJA YADAV TIRPUDE	Pooja
33	PRAGATI HARIBHAU MAHALLE	P.H. Mahalle
34	PRATIBHA BHAGWANJI BHONGADE	P. Bhongade
35	RAHUL DATTA KANTESHWAR	R. Kanteshwar.
36	RAKHI RAMESH KULSANGE	R. Kulsange
37	RAVINDRA DNYANESHWAR SAHARE	R. Sahare
38	RINA PRAMODRAO WANKHEDE	R. Wankhede
39	SACHIN AMBADAS SHEJAO	S. Shejao
40	SAGAR KISHORRAO GIRDE	S. Girde

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PRINCIPAL  
Indraprastha New Arts, Commerce  
& Science College, WARDHA.

41	SAGAR LAXMANRAO PAYGHAN	Sagar Payghan
42	SAVITA DASHRAT AAHAKE	Savita
43	SHIVANI BHASKAR GIRI	Shivani
44	SHOBHANA PRABHAKARRAO MOHURLE	Shobhane
45	SHUBHAM GUNVANT BHAVEKAR	S. bhavakar.
46	SHUBHAM RAJENDRA KECHE	S. R. Kechhe
47	SHUBHAM VILAS BAHALE	Shubham
48	SHWETA GAJANAN KALE	Shweta Kale
49	SUCHITA GOJENDRA CHIMURKAR	S. Chimurkar.
50	SWAPNIL RAMRAO WARHADE	S. Warahade.
51	TAHIR FARUK DUNGE	T. D.
52	VAISHNAV ANIL RAUT	Vaishnav.
53	VASANTIKA KISHOR GOMASE	V. Gomase.
54	VINIT WASUDEORAO SONKUSARE	Vinit
55	VIRAJ HEMRAJ KATHOTE	Viraj
56	VISHAL HARIDAS SHINDODE	V. Shindode.

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**PRINCIPAL**  
Indraprastha Pwss A/ES. Commerce  
& Science College, WARDHA.



**INDRAPRASTHA NEW ARTS, COMMERCE & SCIENCE COLLEGE, WARDHA**  
**DEPARTMENT OF SOCIAL WORK**

**ASSIGNMENT MARKS**

**CLASS :- M.S.W. I SEM**

2022-23

**SUBJECT : Programme, Institutions & Rural Governance**

Sr.No	Name of Students	ATTENDANCE	SUBMISSION	PRESENTATI	VIVA-VOCE	TOTAL
		5	5	ON 5	INTERACTI ON 5	MARKS 20
1	ACHAL GURUDAS PANBUDE	3	5	5	5	18
2	AKASH SUDHAKARRAO MADANKAR	5	5	5	5	19
3	ANAND RAMESH JAVANJAL	5	5	5	5	18
4	ANIKET ASHOKRAO PARATE	5	5	5	5	19
5	ANKITA RAJENDRA THOTE	5	5	5	5	19
6	ARUNA SHRIRAM INGALE	5	5	5	5	19
7	ASHA MUNNA RAMPURE	4	5	5	5	19
8	ASHISH DNYANESHWAR LODI	5	5	5	5	19
9	ASHWIN DWARKADAS TAKSANDE	5	5	5	5	18
10	BHARAT ARUNRAO DESHMUKH	5	5	5	5	18
11	BHARTI NATTHUJI MESHRAM	5	5	5	5	20
12	BHUMESHWAR DIWAKARRAO SHENDE	5	5	5	5	19
13	BUDDHABHUSHAN SHAMRAO WATHORE	5	5	5	5	19
14	CHAITALI SUNIL BHENDARKAR	5	5	5	5	19
15	DEVANAND SHANKAR KULSANGE	5	5	5	5	19
16	DIPALI AMBADAS SHEDMAKE	5	5	5	5	19
17	DIVYANI TILOKCHAND SHENDE	5	5	5	5	18
18	JAYSHRI MAROTRAO DHORE	5	5	5	5	20
19	KAPIL GAUTAMRAO MOON	5	5	5	5	19
20	KAVITA LILADHARRAO PANBUDE	5	5	5	5	19
21	KISHOR NAMDEV KHAKARE	5	5	5	5	19
22	KISHORI SUBHASHRAO KANGALE	5	5	5	5	19
23	MANIT RAVINDRA DONGRE	5	5	5	5	19
24	MAYUR RAMESHRAO SAWANT	5	5	5	5	19
25	NAMITA VINOD MESHRAM	5	5	5	5	19
26	NILESH GAUTAM THAMKE	5	5	5	5	19
27	NILESH HARIDAS DHURVE	5	5	5	5	19
28	NILIMA VITTHALRAO KANGATE	5	5	5	5	19
29	PAYAL NAGORAO BHOMALE	5	5	5	5	19
30	PAYAL SUNIL KURVE	5	5	5	5	19
31	POOJA ASHOK KHADSE	5	5	5	5	19
32	POOJA YADAV TIRPUDE	5	5	5	5	18
33	PRAGATI HARIBHAU MAHALLE	5	5	5	5	19
34	PRATIBHA BHAGWANJI BHONGADE	5	5	5	5	19
35	RAHUL DATTA KANTESHWAR	5	5	5	5	19
36	RAKHI RAMESH KULSANGE	5	5	5	5	19
37	RAVINDRA DNYANESHWAR SAHARE	5	5	5	5	19
38	RINA PRAMODRAO WANKHEDE	5	5	5	5	19

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*[Handwritten Signature]*

**PRINCIPAL**  
Indraprastha New Arts, Commerce  
& Science College, WARDHA

39	SACHIN AMBADAS SHEJAO	u	u	9	u	u
40	SAGAR KISHORRAO GIRDE	u	u	u	u	u
41	SAGAR LAXMANRAO PAYGHAN	u	u	u	u	u
42	SAVITA DASHRAT AAHAKE	u	u	u	u	u
43	SHIVANI BHASKAR GIRI	u	u	u	u	u
44	SHOBHANA PRABHAKARRAO MOHURLE	u	u	u	u	u
45	SHUBHAM GUNVANT BHAVEKAR	u	u	u	u	u
46	SHUBHAM RAJENDRA KECHE	u	u	u	u	u
47	SHUBHAM VILAS BAHALE	u	u	u	u	u
48	SHWETA GAJANAN KALE	u	u	u	u	u
49	SUCHITA GOJENDRA CHIMURKAR	u	u	u	u	u
50	SWAPNIL RAMRAO WARHADE	u	u	u	u	u
51	TAHIR FARUK DUNGE	u	u	u	u	u
52	VAISHNAV ANIL RAUT	u	u	u	u	u
53	VASANTIKA KISHOR GOMASE	u	u	u	u	u
54	VINIT WASUDEORAO SONKUSARE	u	u	u	u	u
55	VIRAJ HEMRAJ KATHOTE	u	u	u	u	u
56	VISHAL HARIDAS SHINDODE	u	u	u	u	u

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**PRINCIPAL**  
Indraprastha New A.P. Commerce  
& Science College, WARUDA

INDRAPRASTHA NEW ARTS, COMMERCE & SCIENCE COLLEGE, WARDHA

DEPARTMENT OF SOCIAL WORK

ASSIGNMENT ATTENDANCE

CLASS :- M.S.W. IV SEM

2022-23

SUBJECT : Programme, Institutions & Rural Governance

Sr.No.	Name of Students	Signature
1	ACHAL GURUDAS PANBUDE	Achal
2	AKASH SUDHAKARRAO MADANKAR	Aakash
3	ANAND RAMESH JAVANJAL	Anand
4	ANIKET ASHOKRAO PARATE	Aniket
5	ANKITA RAJENDRA THOTE	Ankita
6	ARUNA SHRIRAM INGALE	Aruna
7	ASHA MUNNA RAMPURE	Asha
8	ASHISH DNYANESHWAR LODE	Ashish
9	ASHWIN DWARKADAS TAKSANDE	A. Takasande
10	BHARAT ARUNRAO DESHMUKH	B. Deshmukh
11	BHARTI NATTHUJI MESHRAM	B. Meshram
12	BHUMESHWAR DIWAKARRAO SHENDE	B.D. Shende
13	BUDDHABHUSHAN SHAMRAO WATHORE	B. Wathore
14	CHAITALI SUNIL BHENDARKAR	C. Bhendarkar
15	DEVANAND SHANKAR KULSANGE	D.S. Kulsange
16	DIPALI AMBADAS SHEDMAKE	D. Shedmake
17	DIVYANI TILOKCHAND SHENDE	D. Shende
18	JAYSHRI MAROTRAO DHORE	J. Dhore
19	KAPIL GAUTAMRAO MOON	K.G. Moon
20	KAVITA LILADHARRAO PANBUDE	K.L.P.
21	KISHOR NAMDEV KHAKARE	K. Khakare
22	KISHORI SUBHASHRAO KANGALE	K. Kangale
23	MANIT RAVINDRA DONGRE	M. Dongre
24	MAYUR RAMESHRAO SAWANT	M. Sawant
25	NAMITA VINOD MESHRAM	N. Meshram
26	NILESH GAUTAM THAMKE	N. Thamke
27	NILESH HARIDAS DHURVE	N. Dhurve
28	NILIMA VITTHALRAO KANGATE	N. Kangate
29	PAYAL NAGORAO BHOMALE	P. Bhomale
30	PAYAL SUNIL KURVE	P. Kurve
31	POOJA ASHOK KHADSE	P. Khadse
32	POOJA YADAV TIRPUDE	P. Tirpude
33	PRAGATI HARIBHAU MAHALLE	P.H. Mahalle
34	PRATIBHA BHAGWANJI BHONGADE	P. Bhongade
35	RAHUL DATTA KANTESHWAR	R. Kanteshwar
36	RAKHI RAMESH KULSANGE	R. Kulsange
37	RAVINDRA DNYANESHWAR SAHARE	R. Sahare
38	RINA PRAMODRAO WANKHEDE	R. Wankhede
39	SACHIN AMBADAS SHEJAO	S. Shejao
40	SAGAR KISHORRAO GIRDE	S. Girde

*(Signature)*

*(Signature)*

41	SAGAR LAXMANRAO PAYGHAN	S. Payghan
42	SAVITA DASHRAT AAHAKHE	Savita
43	SHIVANI BHASKAR GIRI	S. Giri
44	SHOBHANA PRABHAKARRAO MOHURLE	S. Mohurle
45	SHUBHAM GUNVANT BHAVEKAR	S. bhavkar.
46	SHUBHAM RAJENDRA KECHE	S.R. Kechhe
47	SHUBHAM VILAS BAHALE	Shubham
48	SHWETA GAJANAN KALE	Shwetakale
49	SUCHITA GOJENDRA CHIMURKAR	S. chimurkar.
50	SWAPNIL RAMRAO WARHADE	S. Warahade
51	TAHIR FARUK DUNGE	T.D.
52	VAISHNAV ANIL RAUT	Vaishnav.
53	VASANTIKA KISHOR GOMASE	V. Gomase
54	VINIT WASUDEORAO SONKUSARE	Vinit
55	VIRAJ HEMRAJ KATHOTE	Viraj
56	VISHAL HARIDAS SHINDODE	V. Shindode

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*[Handwritten signature]*  
**PRINCIPAL**  
 Indrapresthe New Arts, Commerce  
 & Science College, WARJHA

INDRAPRASTHA NEW ARTS, COMMERCE & SCIENCE COLLEGE, WARDHA

DEPARTMENT OF SOCIAL WORK

ASSIGNMENT MARKS

CLASS :- M.S.W. I SEM

2022-23

SUBJECT : STRATEGIES AND TRENDS IN URBAN COMMUNITY DEVEL.

Sr.No	Name of Students	ATTENDANCE 5	SUBMISSION 5	PRESENTATI ON 5	VIVA- VOCE INTERACTI ON 5	TOTAL MARKS 20
1	ACHAL GURUDAS PANBUDE	5	5	4	5	19
2	AKASH SUDHAKARRAO MADANKAR	5	5	5	5	19
3	ANAND RAMESH JAVANJAL	5	5	5	5	18
4	ANIKET ASHOKRAO PARATE	5	5	5	5	20
5	ANKITA RAJENDRA THOTE	5	5	5	5	19
6	ARUNA SHRIRAM INGALE	5	5	5	5	19
7	ASHA MUNNA RAMPURE	5	5	5	5	19
8	ASHISH DNYANESHWAR LODE	5	5	5	5	19
9	ASHWIN DWARKADAS TAKSANDE	5	5	5	5	18
10	BHARAT ARUNRAO DESHMUKH	5	5	5	5	18
11	BHARTI NATTHUJI MESHRAM	5	5	5	5	20
12	BHUMESHWAR DIWAKARRAO SHENDE	5	5	5	5	19
13	BUDDHABHUSHAN SHAMRAO WATHORE	5	5	5	5	19
14	CHAITALI SUNIL BHENDARKAR	5	5	5	5	19
15	DEVANAND SHANKAR KULSANGE	5	5	5	5	19
16	DIPALI AMBADAS SHEDMAKE	5	5	5	5	19
17	DIVYANI TILOKCHAND SHENDE	5	5	5	5	19
18	JAYSHRI MAROTRAO DHORE	5	5	5	5	20
19	KAPIL GAUTAMRAO MOON	5	4	5	5	19
20	KAVITA LILADHARRAO PANBUDE	5	5	5	5	19
21	KISHOR NAMDEV KHAKARE	5	5	5	5	19
22	KISHORI SUBHASHRAO KANGALE	5	5	5	5	19
23	MANIT RAVINDRA DONGRE	5	5	5	5	19
24	MAYUR RAMESHRAO SAWANT	5	5	5	5	19
25	NAMITA VINOD MESHRAM	5	5	5	5	19
26	NILESH GAUTAM THAMKE	5	5	5	5	19
27	NILESH HARIDAS DHURVE	5	5	5	5	19
28	NILIMA VITTHALRAO KANGATE	5	5	5	5	19
29	PAYAL NAGORAO BHOMALE	5	5	5	5	19
30	PAYAL SUNIL KURVE	5	5	5	5	19
31	POOJA ASHOK KHADSE	5	5	5	5	19
32	POOJA YADAV TIRPUDE	5	5	5	5	19
33	PRAGATI HARIBHAU MAHALLE	5	5	5	5	19
34	PRATIBHA BHAGWANJI BHONGADE	5	5	5	5	19
35	RAHUL DATTA KANTESHWAR	5	5	5	5	19
36	RAKHI RAMESH KULSANGE	5	5	5	5	19
37	RAVINDRA DNYANESHWAR SAHARE	5	5	5	5	19
38	RINA PRAMODRAO WANKHEDE	5	5	5	5	19

*[Signature]*

*[Signature]*

PRINCIPAL  
Indraprastha New Arts, Commerce  
& Science College, WARDHA.

39	SACHIN AMBADAS SHEJAO	5	5	5	5	5
40	SAGAR KISHORRAO GIRDE	5	5	5	5	5
41	SAGAR LAXMANRAO PAYGHAN	5	5	5	5	5
42	SAVITA DASHRAT AHAKE	3	5	5	5	5
43	SHIVANI BHASKAR GIRI	5	5	5	5	5
44	SHOBHANA PRABHAKARRAO MOHURLE	5	5	5	5	5
45	SHUBHAM GUNVANT BHAVEKAR	5	5	5	5	5
46	SHUBHAM RAJENDRA KECHE	5	5	5	5	5
47	SHUBHAM VILAS BAHALE	5	5	5	5	5
48	SHWETA GAJANAN KALE	5	5	5	5	5
49	SUCHITA GOJENDRA CHIMURKAR	5	5	5	5	5
50	SWAPNIL RAMRAO WARHADE	5	5	5	5	5
51	TAHIR FARUK DUNGE	5	5	5	5	5
52	VAISHNAV ANIL RAUT	5	5	5	5	5
53	VASANTIKA KISHOR GOMASE	5	5	5	5	5
54	VINIT WASUDEORAO SONKUSARE	5	5	5	5	5
55	VIRAJ HEMRAJ KATHOTE	5	5	5	5	5
56	VISHAL HARIDAS SHINDODE	5	5	5	5	5

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**PRINCIPAL**  
 Indraprastha New Arts, Commerce  
 & Science College, WARDHA.

INDRAPRASTHA NEW ARTS, COMMERCE & SCIENCE COLLEGE, WARDHA

DEPARTMENT OF SOCIAL WORK

ASSIGNMENT ATTENDANCE

CLASS : M.S.W. IV SEM

SUBJECT : *2022-23*  
Strategies & Trends in urban community Develop.

Sr.No.	Name of Students	Signature
1	ACHAL GURUDAS PANBUDE	<i>Achal</i>
2	AKASH SUDHAKARRAO MADANKAR	<i>Aakash</i>
3	ANAND RAMESH JAVANJAL	<i>Ananjanjal</i>
4	ANIKET ASHOKRAO PARATE	<i>Aniket</i>
5	ANKITA RAJENDRA THOTE	<i>Ankita Thote</i>
6	ARUNA SHRIRAM INGALE	<i>Aruna</i>
7	ASHA MUNNA RAMPURE	<i>Asha</i>
8	ASHISH DNYANESHWAR LODE	<i>Ashish Lode</i>
9	ASHWIN DWARKADAS TAKSANDE	<i>A. Thaksande</i>
10	BHARAT ARUNRAO DESHMUKH	<i>B. Deshmukh</i>
11	BHARTI NATTHUJI MESHRAM	<i>B. Meshram</i>
12	BHUMESHWAR DIWAKARRAO SHENDE	<i>B. D. Shende</i>
13	BUDDHABHUSHAN SHAMRAO WATHORE	<i>B. Wathore</i>
14	CHAITALI SUNIL BHENDARKAR	<i>C. Bhendekar</i>
15	DEVANAND SHANKAR KULSANGE	<i>D. S. Kulsange</i>
16	DIPALI AMBADAS SHEDMAKE	<i>D. Shedmake</i>
17	DIVYANI TILOKCHAND SHENDE	<i>D. Shende</i>
18	JAYSHRI MAROTRAO DHORE	<i>J. Dhore</i>
19	KAPIL GAUTAMRAO MOON	<i>K. G. Moon</i>
20	KAVITA LILADHARRAO PANBUDE	<i>K. L. P.</i>
21	KISHOR NAMDEV KHAKARE	<i>K. Khakare</i>
22	KISHORI SUBHASHRAO KANGALE	<i>K. Kangale</i>
23	MANIT RAVINDRA DONGRE	<i>M. Dongre</i>
24	MAYUR RAMESHRAO SAWANT	<i>M. Sawant</i>
25	NAMITA VINOD MESHRAM	<i>N. Meshram</i>
26	NILESH GAUTAM THAMKE	<i>N. Thamke</i>
27	NILESH HARIDAS DHURVE	<i>N. Dhurve</i>
28	NILIMA VITTHALRAO KANGATE	<i>N. Kangate</i>
29	PAYAL NAGORAO BHOMALE	<i>P. Bhamble</i>
30	PAYAL SUNIL KURVE	<i>P. Kurve</i>
31	POOJA ASHOK KHADSE	<i>P. Khadse</i>
32	POOJA YADAV TIRPUDE	<i>P. Tirpude</i>
33	PRAGATI HARIBHAU MAHALLE	<i>P. H. Mahalle</i>
34	PRATIBHA BHAGWANJI BHONGADE	<i>P. Bhongade</i>
35	RAHUL DATTA KANTESHWAR	<i>R. Kanteshwar</i>
36	RAKHI RAMESH KULSANGE	<i>R. Kulsange</i>
37	RAVINDRA DNYANESHWAR SAHARE	<i>R. Sahare</i>
38	RINA PRAMODRAO WANKHEDE	<i>R. Wankhede</i>
39	SACHIN AMBADAS SHEJAO	<i>S. Shejao</i>
40	SAGAR KISHORRAO GIRDE	<i>S. Girde</i>

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PRINCIPAL  
Indraprastha New Arts, Commerce  
& Science College, WARDHA

41	SAGAR LAXMANRAO PAYGHAN	S. Payghan
42	SAVITA DASHRAT AAHAKE	S. V. Aahake
43	SHIVANI BHASKAR GIRI	S. B. Giri
44	SHOBHANA PRABHAKARRAO MOHURLE	S. Mohurle
45	SHUBHAM GUNVANT BHAVEKAR	S. Bharekar
46	SHUBHAM RAJENDRA KECHE	S. R. Kechhe
47	SHUBHAM VILAS BAHALE	S. Bahale
48	SHWETA GAJANAN KALE	S. K. Kale
49	SUCHITA GOJENDRA CHIMURKAR	S. Chimurkar
50	SWAPNIL RAMRAO WARHADE	S. Warhade
51	TAHIR FARUK DUNGE	T. D.
52	VAISHNAV ANIL RAUT	V. Raut
53	VASANTIKA KISHOR GOMASE	V. Gomase
54	VINIT WASUDEORAO SONKUSARE	V. Sonkusare
55	VIRAJ HEMRAJ KATHOTE	V. Kathote
56	VISHAL HARIDAS SHINDODE	V. Shindode

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PRINCIPAL  
Indraprastha New Arts, Commerce  
& Science College, WARDHA



INDRAPRASTHA NEW ARTS, COMMERCE & SCIENCE COLLEGE, WARDHA

DEPARTMENT OF SOCIAL WORK

ASSIGNMENT MARKS

CLASS :- M.S.W. IV SEM

NGO - MANAGEMENT AND MEDIA

SUBJECT :

2022-23

Sr.No.	Name of Students	ATTENDANCE 5	SUBMISSION 5	PRESENTATION 5	VIVA-VOCE INTERACTIO N 5	TOTAL MARKS 20
1	AACHAL KAILASRAO YAWALIKAR	5	5	5	4	19
2	AAKASH PUNDLIKRAO TALWEKAR	5	5	5	4	19
3	ABHISHEK ANIL TAYADE	5	5	5	4	19
4	ACHAL GURUDAS PANBUDE	5	5	5	3	18
5	AJAY TULSHIRAM BHAYMARE	5	5	5	4	19
6	AKASH SUDHAKARRAO MADANKAR	5	5	5	4	19
7	AKSHAY BANDUJI PUNDKAR	5	5	5	4	19
8	ANAMIKA MUKINDA HATAGALE	5	5	5	3	18
9	ANAND RAMESH JAVANJAL	5	5	5	3	18
10	ANIKET ASHOKRAO PARATE	5	5	5	4	19
11	ANJALI RAMESHWAR BOKEY	5	5	5	5	20
12	ANKITA GAJANANRAO NASARE	5	5	5	4	19
13	ANKITA RAJENDRA THOTE	5	5	5	4	19
14	ARUNA SHRIRAM INGALE	5	5	5	3	18
15	ASHA MUNNA RAMPURE	5	5	5	3	18
16	ASHISH DNYANESHWAR LODE	5	5	5	4	19
17	ASHWIN DWARKADAS TAKSANDE	5	5	5	3	18
18	ASHWINI BABARAO CHAMATE	5	5	5	4	19
19	ASHWINI SHANKARRAO GIRI	5	5	5	4	19
20	BHAGYASHRI NARENDRA DESHMUKH	5	5	5	4	19
21	BHAGYASHRI PRABHUNATH SURANDASE	5	5	5	4	19
22	BHARAT ARUNRAO DESHMUKH	5	5	5	4	19
23	BHARTI NATTHUJI MESHRAM	5	5	5	5	20
24	BHARTI VISHWANATH KASAR	5	5	5	4	19
25	BHUMESHWAR DIWAKARRAO SHENDE	5	5	5	4	19
26	BHUMIKA BALU GOLAMBE	5	5	5	4	19
27	BRUHADATTA JAGANRAO PAKHALE	5	5	5	4	19
28	BUDDHABHUSHAN SHAMRAO WATHORE	5	5	5	3	18
29	CHAITALI SUNIL BHENDARKAR	5	5	5	4	19
30	CHANCHAL BHAURAOJI LANJEWAR	5	5	5	4	19
31	DEVANAND SHANKAR KULSANGE	5	5	5	4	19
32	DIKSHA SUDHAKAR THAKARE	5	5	5	4	19
33	DIPALI AMBADAS SHEDMAKE	5	5	5	3	18
34	DIVYA VINAYAK NAGPURKAR	5	5	5	3	18
35	DIVYANI TILOKCHAND SHENDE	5	5	5	4	19

PRINCIPAL  
Indraprastha New Arts, Commerce  
& Science College, WARDHA

36	DURGA DULSING RATHOD	5	5	5	4	19
37	DURGESH MADHAV NEWARE	5	5	5	4	19
38	GAJANAN WASUDEO SIDAM	5	5	5	4	19
39	GAURAV GURUDAS MADAVI	5	5	5	4	19
40	ISHAN KESHAO POKALE	5	5	5	4	19
41	ISHATA VISHAL LONDHE	5	5	5	4	19
42	JAYSHRI MAROTRAO DHORE	5	5	5	5	20
43	KAJAL DADARAO CHAVHAN	5	5	5	4	19
44	KAPIL GAUTAMRAO MOON	5	5	5	4	19
45	KAVITA LILADHARRAO PANBUDE	5	5	5	4	19
46	KISHOR NAMDEV KHAKARE	5	5	5	4	19
47	KISHORI SUBHASHRAO KANGALE	5	5	5	4	19
48	KOMAL ASHOK MERUGWAR	5	5	5	4	19
49	KOMAL KAILAS WANKHADE	5	5	5	4	19
50	KOMAL SHALIKRAO WAGHADE	5	5	5	4	19
51	KOMAL TOLARAM CHAVHAN	5	5	5	4	19
52	KOYNA MUKINDA HATAGALE	5	5	5	4	19
53	KUNAL PANDURANG PARISE	5	5	5	4	19
54	LAXMI RAGHUNATH KHADKE	5	5	5	3	18
55	MAMATA SANJAY MARASKOLHE	5	5	5	3	18
56	MANGESH SHRIKRUSHNAJI PATILPAIK	5	5	5	4	19
57	MANISHA UTTAMRAO WANKHADE	5	5	5	3	18
58	MANIT RAVINDRA DONGRE	5	5	5	3	18
59	MAYUR RAMESHRAO SAWANT	5	5	5	3	18
60	MRUNALI DATTATRAYRAO BUDE	5	5	5	3	18
61	NAMITA VINOD MESHRAM	5	5	5	3	18
62	NIKHIL CHANDRAKANT MANKAR	5	5	5	3	18
63	NIKITA AANNA CHADHOKAR	5	5	5	4	19
64	NIKITA RAVINDRA HOLEY	5	5	5	4	19
65	NILESH GAUTAM THAMKE	5	5	5	4	19
66	NILESH HARIDAS DHURVE	5	5	5	4	19
67	NILIMA VITTHALRAO KANGATE	5	5	5	4	19
68	NISHA NARESH VAIRAGADE	5	5	5	4	19
69	PAYAL CHAKRADHAR KANHERKAR	5	5	5	4	19
70	PAYAL NAGORAO BHOMALE	5	5	5	4	19
71	PAYAL SUNIL KURVE	5	5	5	4	19
72	POOJA ASHOK KHADSE	5	5	5	4	19
73	POOJA YADAV TIRPUDE	5	5	5	4	19
74	PRACHI RAJU CHAUDHARI	5	5	5	4	19
75	PRAGATI HARIBHAU MAHALLE	5	5	5	4	19
76	PRANJALI UTTAMRAO NAKHALE	5	5	5	4	19
77	PRATIBHA BHAGWANJI BHONGADE	5	5	5	4	19
78	PRATIKSHA VINODRAO KHADSE	5	5	5	4	19
79	PRITESH VINODRAO KHADSE	5	5	5	5	20

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PRINCIPAL  
Indraprastha New Arts, Commerce  
& Science College, WARDHA.

80	RAHUL DATTA KANTESHWAR	5	5	5	4	19
81	RAKHI RAMESH KULSANGE	5	5	5	4	19
82	RAVINDRA DNYANESHWAR SAHARE	5	5	5	4	19
83	RAVINDRA WASUDEO JADHAO	5	5	5	4	19
84	RINA PRAMODRAO WANKHEDE	5	5	5	4	19
85	ROHAN HANUMAN GHUME	5	5	5	4	19
86	RUPESH SHRIKRUSHNA NANDANE	5	5	5	3	18
87	RUTUJA ANANDRAO ATAKAR	5	5	5	4	19
88	RUTWIK RAJENDRA KOLHE	5	5	5	4	19
89	SACHIN AMBADAS SHEJAO	5	5	5	3	18
90	SACHIN RAMESH CHAVHAN	5	5	5	3	18
91	SAGAR KISHORRAO GIRDE	5	5	5	4	19
92	SAGAR LAXMANRAO PAYGHAN	5	5	5	4	19
93	SAHIL SUDHIR PETHE	5	5	5	3	18
94	SAMMOHI DILIPRAO KOHALE	5	5	5	4	19
95	SAVITA DASHRAT AHAKE	5	5	5	3	18
96	SHIVANI BHASKAR GIRI	5	5	5	3	18
97	SHIVANI PRABHAKAR BHOYAR	5	5	5	4	19
98	SHIVANI WAMANRAO NAITAM	5	5	5	3	18
99	SHIWANI SUDHAKAR KURSANGE	5	5	5	4	19
100	SHOBHANA PRABHAKARRAO MOHURLE	5	5	5	4	19
101	SHUBHAM DILIPRAO CHAUDHARI	5	5	5	4	19
102	SHUBHAM GUNVANT BHAVEKAR	5	5	5	4	19
103	SHUBHAM RAJENDRA KECHHE	5	5	5	3	18
104	SHUBHAM VILAS BAHALE	5	5	5	3	18
105	SHWETA GAJANAN BAMBAL	5	5	5	4	19
106	SHWETA GAJANAN KALE	5	5	5	4	19
107	SUCHITA GOJENDRA CHIMURKAR	5	5	5	4	19
108	SUJATA DILIPRAO GOLHAR	5	5	5	4	19
109	SUMEDH RAMKRUSHNA GUJAR	5	5	5	4	19
110	SURAJ KISANRAO INGOLE	5	5	5	4	19
111	SUSHMIT MAHENDRA WANKHEDE	5	5	5	4	19
112	SWAPNIL RAMRAO WARHADE	5	5	5	4	19
113	SWAPNIL ZANAKRAO NAPTE	5	5	5	4	19
114	TAHIR FARUK DUNGE	5	5	5	4	19
115	UMESH PRAMOD WAGHAMODE	5	5	5	4	19
116	VAIBHAV CHANDRABHANJJI MEGHARE	5	5	5	4	19
117	VAIBHAV GAJANANRAO MANDADE	5	5	5	4	19
118	VAISHALI DNYANESHWAR GADGE	5	5	5	4	19
119	VAISHNAV ANIL RAUT	5	5	5	3	18
120	VAISHNAVI DHANRAJ SURSAUT	5	5	5	4	19
121	VAISHNAVI VILASRAO WADE	5	5	5	4	19
122	VANITA RAJENDRA DHONGADE	5	5	5	4	19
123	VASANTIKA KISHOR GOMASE	5	5	5	4	19

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**PRINCIPAL**  
 Indraprastha ... A. U. Commerce  
 & Science College, WARDHA.

124	VINIT WASUDEORAO SONKUSARE	5	5	5	4	19
125	VIRAJ HEMRAJ KATHOTE	5	5	5	4	19
126	VISHAL HARIDAS SHINDODE	5	5	5	4	19
127	WANITA SUDHAKARRAO RATHOD	5	5	5	4	19
128	CHANDAN RAJU KALE	5	5	5	4	19
129	SONALI BHAGYAWAN BHAGAT	5	5	5	4	19



**PRINCIPAL**  
Indraprastha New Arts, Commerce  
& Science College, WARDHA

**INDRAPRASTHA NEW ARTS, COMMERCE & SCIENCE COLLEGE, WARDHA**  
**DEPARTMENT OF SOCIAL WORK**

**ASSIGNMENT ATTEDANCE**

2022-23

**CLASS :- M.S.W. IV SEM**

**SUBJECT: N.G.O. Manegment**

Sr.No.	Name of Students	signature
1	AACHAL KAILASRAO YAWALIKAR	Aachal.
2	AAKASH PUNDLIKRAO TALWEKAR	A Talwar
3	ABHISHEK ANIL TAYADE	Abhishek
4	ACHAL GURUDAS PANBUDE	A. Panbude
5	AJAY TULSHIRAM BHAYMARE	Ajaye
6	AKASH SUDHAKARRAO MADANKAR	A Madankar
7	AKSHAY BANDUJI PUNDKAR	Akshay
8	ANAMIKA MUKINDA HATAGALE	Anamika
9	ANAND RAMESH JAVANJAL	Anand
10	ANIKET ASHOKRAO PARATE	A. A. Parate
11	ANJALI RAMESHWAR BOKEY	A. Bokey
12	ANKITA GAJANANRAO NASARE	A. G. Nasare
13	ANKITA RAJENDRA THOTE	A. Thote
14	ARUNA SHRIRAM INGALE	A. S. Ingale
15	ASHA MUNNA RAMPURE	Asha
16	ASHISH DNYANESHWAR LODE	A. Rampure
17	ASHWIN DWARKADAS TAKSANDE	Ashish Lode
18	ASHWINI BABARAO CHAMATE	A. Chamate
19	ASHWINI SHANKARRAO GIRI	A. Gir
20	BHAGYASHRI NARENDRA DESHMUKH	Bhagyashree
21	BHAGYASHRI PRABHUNATH SURANDASE	B. Surandase
22	BHARAT ARUNRAO DESHMUKH	B. A. Deshmukh.
23	BHARTI NATTHUJI MESHAM	B. Meshram.
24	BHARTI VISHWANATH KASAR	B. V. Kasar.
25	BHUMESHWAR DIWAKARRAO SHENDE	B. Shende.
26	BHUMIKA BALU GOLAMBE	B. Golambe.
27	BRUHADATTA JAGANRAO PAKHALE	B. Pakhale.
28	BUDDHABHUSHAN SHAMRAO WATHORE	B. Wathore.
29	CHAITALI SUNIL BHENDARKAR	Chaitali.
30	CHANCHAL BHAURAOJI LANJEWAR	Chanchal Lanjewar
31	DEVANAND SHANKAR KULSANGE	D. S. Kulsange.
32	DIKSHA SUDHAKAR THAKARE	D. Thakare
33	DIPALI AMBADAS SHEDMAKE	D. Shedmake
34	DIVYA VINAYAK NAGPURKAR	D. Nagpurkar.
35	DIVYANI TILOKCHAND SHENDE	D. Shende
36	DURGA DULSING RATHOD	D. Rathod
37	DURGESH MADHAV NEWARE	D. Neware.
38	GAJANAN WASUDEO SIDAM	G. W. Sidam
39	GAURAV GURUDAS MADAVI	G. G. Madavi.

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**PRINCIPAL**  
 Indraprastha New Arts, Commerce  
 & Science College, WARDHA

40	ISHAN KESHAO POKALE	S. Pokale
41	ISHATA VISHAL LONDHE	I. Londhe
42	JAYSHRI MAROTRAO DHORE	J. Dhore
43	KAJAL DADARAO CHAVHAN	K. Chavhan
44	KAPIL GAUTAMRAO MOON	K.G. Moon
45	KAVITA LILADHARRAO PANBUDE	K.L.P.
46	KISHOR NAMDEV KHAKARE	K.K. Khakare
47	KISHORI SUBHASHRAO KANGALE	K.S. Kangale
48	KOMAL ASHOK MERUGWAR	K.A. Merugwar
49	KOMAL KAILAS WANKHADE	K.K. Wankhade
50	KOMAL SHALIKRAO WAGHADE	K. Waghade
51	KOMAL TOLARAM CHAVHAN	K.T. Chavhan
52	KOYNA MUKINDA HATAGALE	K. Hatagale
53	KUNAL PANDURANG PARISE	K. Parise
54	LAXMI RAGHUNATH KHADKE	Laxmi
55	MAMATA SANJAY MARASKOLHE	Mamata Maraskolhe
56	MANGESH SHRIKRUSHNAJI PATILPAIK	M.S. Patilpaik
57	MANISHA UTTAMRAO WANKHADE	M.U. Wankhade
58	MANIT RAVINDRA DONGRE	M.R. Dongre
59	MAYUR RAMESHRAO SAWANT	M.R. Sawant
60	MRUNALI DATTATRAYRAO BUDE	M.V. Meshram
61	NAMITA VINOD MESHAM	N.C. Mankar
62	NIKHIL CHANDRAKANT MANKAR	N.A. Chardhokar
63	NIKITA AANNA CHADHOKAR	N.A. Chadhokar
64	NIKITA RAVINDRA HOLEY	N. Holey
65	NILESH GAUTAM THAMKE	N. Thamke
66	NILESH HARIDAS DHURVE	N. Dhurve
67	NILIMA VITTHALRAO KANGATE	N. Kangate
68	NISHA NARESH VAIRAGADE	N. Vairagade
69	PAYAL CHAKRADHAR KANHERKAR	P. Kanherkar
70	PAYAL NAGORAO BHOMALE	P. Bhomale
71	PAYAL SUNIL KURVE	P. Kurve
72	POOJA ASHOK KHADSE	P. Khadse
73	POOJA YADAV TIRPUDE	P. Yadav
74	PRACHI RAJU CHAUDHARI	P. Chaudhari
75	PRAGATI HARIBHAU MAHALLE	P.H. Mahalle
76	PRANJALI UTTAMRAO NAKHALE	P. Nakhale
77	PRATIBHA BHAGWANJI BHONGADE	P. Bhongade
78	PRATIKSHA VINODRAO KHADSE	P.V. Khadse
79	PRITESH VINODRAO KHADSE	P.V. Khadse
80	RAHUL DATTA KANTESHWAR	R.K.
81	RAKHI RAMESH KULSANGE	R. Kulsange
82	RAVINDRA DNYANESHWAR SAHARE	R. Sahare
83	RAVINDRA WASUDEO JADHAO	R. Jadhao
84	RINA PRAMODRAO WANKHEDE	R. Wankhede
85	ROHAN HANUMAN GHUME	R. Ghume

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PRINCIPAL  
Indraprastha Niv. A. Co. Commerce  
& Science College, WARJHA

86	RUPESH SHRIKRUSHNA NANDANE	Nandane
87	RUTUJA ANANDRAO ATAKAR	R.A.
88	RUTWIK RAJENDRA KOLHE	Rutwik.
89	SACHIN AMBADAS SHEJAO	S. Shejo.
90	SACHIN RAMESH CHAVHAN	S.C.
91	SAGAR KISHORRAO GIRDE	Girde
92	SAGAR LAXMANRAO PAYGHAN	Payghan
93	SAHIL SUDHIR PETHE	Sahil.
94	SAMMOHI DILIPRAO KOHALE	Kahale.
95	SAVITA DASHRAT AHAKE	Savita
96	SHIVANI BHASKAR GIRI	Giri
97	SHIVANI PRABHAKAR BHOYAR	Shivan. bhojar.
98	SHIVANI WAMANRAO NAITAM	Shivani. N.
99	SHIVANI SUDHAKAR KURSANGE	Mohurde
100	SHOBHANA PRABHAKARRAO MOHURLE	S. Kursange.
101	SHUBHAM DILIPRAO CHAUDHARI	S. Mohurle.
102	SHUBHAM GUNVANT BHAVEKAR	S. bhavekar.
103	SHUBHAM RAJENDRA KECHE	S.R. Kecher.
104	SHUBHAM VILAS BAHALE	Shubham
105	SHWETA GAJANAN BAMBAL	Shwetabambal.
106	SHWETA GAJANAN KALE	Shwetakale
107	SUCHITA GOJENDRA CHIMURKAR	Shimurkar.
108	SUJATA DILIPRAO GOLHAR	S. gular.
109	SUMEDH RAMKRUSHNA GUJAR	S. D. J.
110	SURAJ KISANRAO INGOLE	Sushmita
111	SUSHMIT MAHENDRA WANKHEDE	S. Wankhede.
112	SWAPNIL RAMRAO WARHADE	S. warhade.
113	SWAPNIL ZANAKRAO NAPTE	Napte.
114	TAHIR FARUK DUNGE	T. D.
115	UMESH PRAMOD WAGHAMODE	Umesh.
116	VAIBHAV CHANDRABHANJI MEGHARE	V. Meghare.
117	VAIBHAV GAJANANRAO MANDADE	Vaibhav.
118	VAISHALI DNYANESHWAR GADGE	V. G.
119	VAISHNAV ANIL RAUT	Vaishnav.
120	VAISHNAVI DHANRAJ SURLAUT	Nade
121	VAISHNAVI VILASRAO WADE	V. D.
122	VANITA RAJENDRA DHONGADE	Vasuntika
123	VASANTIKA KISHOR GOMASE	V. Gomase
124	VINIT WASUDEORAO SONKUSARE	Vinit
125	VIRAJ HEMRAJ KATHOTE	Viraj
126	VISHAL HARIDAS SHINDODE	V. Shindode.
127	WANITA SUDHAKARRAO RATHOD	Wanita.
128	CHANDAN RAJU KALE	C. Kale.
129	SONALI BHAGYAWAN BHAGAT	S. bhagat.

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**PRINCIPAL**  
 Indraprastha Inst. Arts, Commerce  
 & Science College, WARDHA.

INDRAPRASTHA NEW ARTS, COMMERCE & SCIENCE COLLEGE, WARDHA

DEPARTMENT OF SOCIAL WORK

ASSIGNMENT MARKS

CLASS :- M.S.W. I SEM

2022-23

SUBJECT : COUNSELLING IN MEDICAL AND PSYCHIATRIC SETTINGS

Sr. No.	Name of Students	ATTENDANCE	SUBMISSION	PRESENTATION	VIVA-VOCE INTERACTION	TOTAL MARKS 20
1	AACHAL KAILASRAO YAWALIKAR	5	5	5	3	18
2	AAKASH PUNDLIKRAO TALWEKAR	5	5	5	4	19
3	ABHISHEK ANIL TAYADE	5	5	4	5	19
4	AJAY TULSHIRAM BHAYMARE	5	5	5	3	18
5	AKSHAY BANDUJI PUNDKAR	4	5	5	4	18
6	ANAMIKA MUKINDA HATAGALE	5	5	5	4	19
7	ANJALI RAMESHWAR BOKEY	5	5	5	5	20
8	ANKITA GAJANANRAO NASARE	5	5	5	4	19
9	ASHWINI BABARAO CHAMATE	5	5	4	5	19
10	ASHWINI SHANKARRAO GIRI	5	5	4	5	19
11	BHAGYASHRI NARENDRA DESHMUKH	5	5	5	4	19
12	BHAGYASHRI PRABHUNATH SURANDASE	5	5	5	4	19
13	BHARTI VISHWANATH KASAR	5	5	4	5	19
14	BHUMIKA BALU GOLAMBE	5	5	4	5	19
15	BRUHADATTA JAGANRAO PAKHALE	5	5	4	5	19
16	CHANCHAL BHAURAOJI LANJEWAR	5	4	5	5	19
17	DIKSHA SUDHAKAR THAKARE	5	5	4	5	19
18	DIVYA VINAYAK NAGPURKAR	5	4	5	4	18
19	DURGA DULSING RATHOD	5	5	4	5	19
20	DURGESH MADHAV NEWARE	5	5	5	4	19
21	GAJANAN WASUDEO SIDAM	5	5	4	5	19
22	GAURAV GURUDAS MADAVI	5	5	4	5	19
23	ISHAN KESHAO POKALE	5	5	5	4	19
24	ISHATA VISHAL LONDHE	5	4	5	5	19
25	KAJAL DADARAO CHAVHAN	5	4	5	5	19
26	KOMAL ASHOK MERUGWAR	5	4	5	5	19
27	KOMAL KAILAS WANKHADE	5	5	4	5	19
28	KOMAL SHALIKRAO WAGHADE	5	5	5	4	19
29	KOMAL TOLARAM CHAVHAN	5	5	4	5	19
30	KOYNA MUKINDA HATAGALE	5	5	5	4	19
31	KUNAL PANDURANG PARISE	5	5	5	4	19
32	LAXMI RAGHUNATH KHADKE	5	4	4	5	18
33	MAMATA SANJAY MARASKOLHE	5	5	4	5	19
34	MANGESH SHRIKRUSHNAJI PATILPAIK	5	5	5	4	19
35	MANISHA UTTAMRAO WANKHADE	5	5	4	5	19
36	MRUNALI DATTATRAYRAO BUDE	5	5	4	4	18
37	NIKHIL CHANDRAKANT MANKAR	5	5	4	5	19
38	NIKITA AANNA CHADHOKAR	5	4	5	4	18
39	NIKITA RAVINDRA HOLEY	5	5	4	5	19
40	NISHA NARESH VAIRAGADE	5	5	4	5	19
41	PAYAL CHAKRADHAR KANHERKAR	5	5	5	4	19

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Indraprastha New Arts, Commerce & Science College, WARDHA.



42	PRACHI RAJU CHAUDHARI	5	5	4	5	19
43	PRANJALI UTTAMRAO NAKHALE	5	5	5	4	19
44	PRATIKSHA VINODRAO KHADSE	5	4	4	5	18
45	PRITESH VINODRAO KHADSE	5	5	4	5	19
46	RAVINDRA WASUDEO JADHAO	5	5	5	4	19
47	ROHAN HANUMAN GHUME	5	5	4	5	19
48	RUPESH SHRIKRUSHNA NANDANE	5	4	5	4	18
49	RUTUJA ANANDRAO ATAKAR	5	5	4	5	19
50	RUTWIK RAJENDRA KOLHE	5	4	5	5	19
51	SACHIN RAMESH CHAVHAN	5	5	4	5	19
52	SAHIL SUDHIR PETHE	5	5	4	4	18
53	SAMMOHI DILIPRAO KOHALE	5	5	5	4	19
54	SHIVANI PRABHAKAR BHOYAR	5	5	5	4	19
55	SHIVANI WAMANRAO NAITAM	5	5	4	5	19
56	SHIWANI SUDHAKAR KURSANGE	5	5	5	3	18
57	SHUBHAM DILIPRAO CHAUDHARI	5	5	5	4	19
58	SHWETA GAJANAN BAMBAL	5	5	4	5	19
59	SUJATA DILIPRAO GOLHAR	5	4	5	5	19
60	SUMEDH RAMKRUSHNA GUJAR	5	5	4	4	18
61	SURAJ KISANRAO INGOLE	5	5	4	5	19
62	SUSHMIT MAHENDRA WANKHEDE	5	5	4	5	19
63	SWAPNIL ZANAKRAO NAPTE	5	5	4	5	19
64	UMESH PRAMOD WAGHAMODE	5	5	4	5	19
65	VAIBHAV CHANDRABHANJI MEGHARE	5	5	5	4	19
66	VAIBHAV GAJANANRAO MANDADE	5	5	5	4	19
67	VAISHALI DNYANESHWAR GADGE	5	5	5	4	19
68	VAISHNAVI DHANRAJ SURSAUT	5	5	4	5	19
69	VAISHNAVI VILASRAO WADE	5	4	5	5	19
70	VANITA RAJENDRA DHONGADE	5	5	4	5	19
71	WANITA SUDHAKARRAO RATHOD	5	5	4	5	19

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**PRINCIPAL**  
 Indraprastha New Arts, Commerce  
 & Science College, WARDHA.

INDRAPRASTHA NEW ARTS, COMMERCE & SCIENCE COLLEGE, WARDHA  
DEPARTMENT OF SOCIAL WORK

ASSIGNMENT ATTENDANCE

CLASS :- M.S.W. IV SEM

2022-23

SUBJECT : COUNSELLING IN MEDICAL AND PSYCHIATRIC SETTINGS

Sr. No	Name of Students	Signature
1	AACHAL KAILASRAO YAWALIKAR	A. Yawalikar
2	AAKASH PUNDLIKRAO TALWEKAR	Aalewkar
3	ABHISHEK ANIL TAYADE	Abhishek
4	AJAY TULSHIRAM BHAYMARE	Ajay
5	AKSHAY BANDUJI PUNDKAR	Akshay
6	ANAMIKA MUKINDA HATAGALE	A. Hatagale
7	ANJALI RAMESHWAR BOKEY	A. Boke
8	ANKITA GAJANANRAO NASARE	A. Nasare
9	ASHWINI BABARAO CHAMATE	A. Chamate
10	ASHWINI SHANKARRAO GIRI	A. Giri
11	BHAGYASHRI NARENDRA DESHMUKH	B. Deshmukh
12	BHAGYASHRI PRABHUNATH SURANDASE	B. Surandase
13	BHARTI VISHWANATH KASAR	Bharti
14	BHUMIKA BALU GOLAMBE	B. Golambe
15	BRUHADATTA JAGANRAO PAKHALE	B. Pakhale
16	CHANCHAL BHAURAOJI LANJEWAR	C. Lanjewar
17	DIKSHA SUDHAKAR THAKARE	D. Thakare
18	DIVYA VINAYAK NAGPURKAR	D. Nagpurkar
19	DURGA DULSING RATHOD	D. Rathod
20	DURGESH MADHAV NEWARE	D. Neware
21	GAJANAN WASUDEO SIDAM	G. Sidam
22	GAURAV GURUDAS MADAVI	G. Madavi
23	ISHAN KESHAO POKALE	I. Pokale
24	ISHATA VISHAL LONDHE	I. Londhe
25	KAJAL DADARAO CHAVHAN	K. Chavhan
26	KOMAL ASHOK MERUGWAR	K. Merugwar
27	KOMAL KAILAS WANKHADE	K. Wankhade
28	KOMAL SHALIKRAO WAGHADE	K. Waghade
29	KOMAL TOLARAM CHAVHAN	K. Chavhan
30	KOYNA MUKINDA HATAGALE	K. Hatagale
31	KUNAL PANDURANG PARISE	K. Parise
32	LAXMI RAGHUNATH KHADKE	L. Khadke
33	MAMATA SANJAY MARASKOLHE	M. Maraskolhe
34	MANGESH SHRIKRUSHNAJI PATILPAIK	M. Patilpaik
35	MANISHA UTTAMRAO WANKHADE	M. Wankhade
36	MRUNALI DATTATRAYRAO BUDE	M. Bude
37	NIKHIL CHANDRAKANT MANKAR	N. Mankar
38	NIKITA AANNA CHADHOKAR	N. Chadhokar
39	NIKITA RAVINDRA HOLEY	N. Holey
40	NISHA NARESH VAIRAGADE	N. Vairagade
41	PAYAL CHAKRADHAR KANHERKAR	P. Kanherkar
42	PRACHI RAJU CHAUDHARI	P. Chaudhari

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*[Handwritten signature]*

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43	PRANJALI UTTAMRAO NAKHALE	(R) Nakhale
44	PRATIKSHA VINODRAO KHADSE	PKhadse
45	PRITESH VINODRAO KHADSE	(P) Khadse
46	RAVINDRA WASUDEO JADHAO	R. Jadhav
47	ROHAN HANUMAN GHUME	(R) Ghume
48	RUPESH SHRIKRUSHNA NANDANE	R. Nandane
49	RUTUJA ANANDRAO ATAKAR	RA Takar
50	RUTWIK RAJENDRA KOLHE	(R) Kolhe
51	SACHIN RAMESH CHAVHAN	(S) Chavhan
52	SAHIL SUDHIR PETHE	SPethe
53	SAMMOHI DILIPRAO KOHALE	SKohale
54	SHIVANI PRABHAKAR BHOYAR	Shivani
55	SHIVANI WAMANRAO NAITAM	Shivani
56	SHIWANI SUDHAKAR KURSANGE	SKursange
57	SHUBHAM DILIPRAO CHAUDHARI	(S) Chaudhari
58	SHWETA GAJANAN BAMBAL	Shweta
59	SUJATA DILIPRAO GOLHAR	SGolhar
60	SUMEDH RAMKRUSHNA GUJAR	SGujar
61	SURAJ KISANRAO INGOLE	(S) Ingole
62	SUSHMIT MAHENDRA WANKHEDE	(S) Wankhede
63	SWAPNIL ZANAKRAO NAPTE	SNapte
64	UMESH PRAMOD WAGHAMODE	(U) Waghmode
65	VAIBHAV CHANDRABHANJI MEGHARE	(V) Meghare
66	VAIBHAV GAJANANRAO MANDADE	V Mandade
67	VAISHALI DNYANESHWAR GADGE	(V) Gadge
68	VAISHNAVI DHANRAJ SURSAUT	V. Sursaut
69	VAISHNAVI VILASRAO WADE	V. Wade
70	VANITA RAJENDRA DHONGADE	V. Dhongade
71	WANITA SUDHAKARRAO RATHOD	WRathod

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Consolidated Internal Split Up Report  
Exam Name: FOURTH SEMESTER B.A. Sem IV  
Subject Name: POLITICAL SCIENCE

College Name: (665) NEW ARTS COMMERCE AND SCIENCE COLLEGE, WARDHA  
Session: Summer-2021



Sr	Seat No	Enrollment	Student Name	Model TEST I	CIE	Model Test II	CIE	Average	Final Marks
				Max Marks 05	Max Marks 05	Max Marks 05	Max Marks 05		Max Marks 20
1	336027	20202066501180	AAFRIN HABIBA SHEIKH	05	05	05	4.5	19.5	20
2	336028	20202066501182	ANKITA SATISH BAILBODE	05	05	05	05	20	20
3	336029	20202066501184	ASHWINI PURUSHOTTAM NIKUDE	05	05	4.5	05	19.5	20
4	336031	20202066501187	BHAGYAREKHA GAJANAN NEWARE	05	04	05	05	19	19
5	336032	20202066501188	BHAIRAVI ARUN WALDE	05	05	05	05	20	20
6	336034	20202066501190	DHANASHRI VILASRAO KOHALE	4.5	05	05	05	19.5	20
7	336035	20202066501191	DIKSHA SANJAY PATIL	05	05	4.5	05	19.5	20
8	336036	20192081517567	DIPALI MORESHWAR DHOTE	05	05	4.5	4.5	19	19
9	336037	20202066501193	DIVYA SUKHDEV KADHAV	05	05	05	4.5	19.5	20
10	336038	20202066501194	DIVYA YOGESH SALVE	05	05	05	05	20	20
11	336040	20202066501196	GAYATRI ARVIND DAHELKAR	05	4.5	05	5	19.5	20
12	336041	20202066501199	KALPANA VILAS SURYAWANSHI	05	05	05	05	20	20
13	336044	NU/A15/90054	KHUSHABU RAJU SHIVANKAR	05	05	05	4	19	19
14	336046	20192081517577	KOMAL SONBAJI RAUT	05	05	4.5	05	19.5	20
15	336049	20202066501207	MAYURI ANKUSHRAO ZOD	05	05	4.5	5	19.5	20
16	336050	20202066501210	MINAL DEVIDASRAO KOHALE	05	05	05	4.5	19.5	20
17	336053	20202066501218	PALLAVI VITTHAL KHANDALKAR	05	05	05	4.5	19.5	20
18	336055	20202066501220	POOJA DILIPRAO KURWADE	05	4.5	05	05	19.5	20
19	336056	20202066501227	POOJA RANVIR ATRAM	05	05	05	05	20	20
20	336057	20192081517589	PRACHI PRAVIN LOKHANDE	05	05	05	05	20	20
21	336059	20202066501221	PRANJALEE DNYANESHWAR EEWANATE	05	05	4.5	05	19.5	20



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Session: Summer-2021

22	336060	20192081517560	PRATIKSHA NIRANJAN KAMBLE	05	05	04	04.5	18.5	19
23	336061	20175081530306	PRIYA PURUSHOTTAM EVNATE	05	05	4.5	05	19.5	20
24	336062	20202066501224	PRIYANKA KALIN NADE	05	05	4.5	05	19.5	20
25	336063	20202066501228	PUNAM PADMAKAR WATGURE	05	05	05	05	20	20
26	336065	PROVISIONAL	ROHINI MORESHWAR NEHARE	04	05	05	4.5	18.5	19
27	336066	20202066501231	SAKSHI ANIL KHARKATE	05	4.5	05	05	19.5	20
28	336068	20202066501234	SAPANA MAROTRAOJI NASARE	05	05	05	05	20	20
29	336070	20202066501236	SHITAL SUKESH MAHULE	05	4.5	05	05	19.5	20
30	336072	20202066501238	SHUBHANGI SUDHAKAR BORSARE	05	05	05	05	20	20
31	336074	20202066501239	SNEHA PRAMODRAO JAUNJAL	05	05	05	05	20	20
32	336076	20202066501246	TANU VASANTRAO JOGE	05	05	05	05	20	20
33	336079	20202066501248	VANDANA ROHIDAS PACHE	05	05	05	05	20	20
34	336081	20202066501252	ABHISHEK SANTOSHRAO DEULKAR	05	4.5	05	05	19.5	20
35	336082	20202066501253	ADARSH SUNIL MESHRE	05	4.5	05	4.5	19	20
36	336083	20192082722951	AJAY BHAGWAN PAWAR	05	05	05	05	20	20
37	336084	20192080318293	AJAY FAKIRAJI JADHAO	05	05	4.5	05	19.5	20
38	336085	20182082928577	AMAR RAHUL MANKAR	05	05	05	05	20	20
39	336087	20202017401067	ANKITA PRAMODRAO BALSARAF	05	05	05	4.5	19.5	20
40	336088	20202066501259	ASHISH DASHRATH AHER	05	05	05	05	20	20
41	336089	20202066501260	ASHISH MADHUKAR SONTAKKE	4.5	4.5	05	4.5	18.5	19
42	336090	20202066501261	ATUL SHARDAPRASAD GAUTAM	05	05	4.5	05	19.5	20
43	336091	20175080329270	AVINASH PURUSHOTTAM NIKODE	05	05	05	05	20	20
44	336092	201501660099786	DINESH PRAMODRAO BAMNOTE	05	4.5	4.5	05	19	20
45	336095	20192080318364	GAURAO PADMAKARRAO CHAUDHARI	05	05	05	05	20	20
46	336096	20202066501270	GAWRAO RAVINDRA RAIPURE	05	4.5	05	05	19.5	20
47	336097	20202066501271	GIRISH VINODRAO BHENDE	4.5	4.5	05	4.5	18.5	19



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Consolidated Internal Split Up Report  
Exam Name: FOURTH SEMESTER B.A. Sem IV  
Subject Name: POLITICAL SCIENCE



College Name: (665) NEW ARTS COMMERCE AND SCIENCE COLLEGE, WARDHA  
Session: Summer-2021

48	336098	20192081517630	HARSHAL SUDHAKAR THAKRE	05	05	05	4.5	19.5	20
49	336099	201501660126445 6	JAGDISH ASHOKRAO DHUMNE	05	05	05	4.5	19.5	20
50	336100	20192101007815	KHUSHAL SUNIL MANDHARE	05	05	05	05	20	20
51	336101	20182081500741	LALIT LAXMAN NANHE	05	05	05	4.5	19.5	20
52	336102	20202066501278	MAHESH AJABRAO SHEDMATE	05	05	05	05	20	20
53	336106	20202066501282	MAYUR ASHOKRAO UIKEY	4.5	4.5	4.5	05	18.5	19
54	336107	20192080318409	MITHUN SHIWLAL MOHITE	05	05	05	05	20	20
55	336109	20192081517645	NAYAN ASHOKRAO BAWANE	05	05	05	05	20	20
56	336111	20192081517648	NIKHIL SANJAY RATNAPARKHI	05	4.5	05	05	19.5	20
57	336112	20182081500765	NIKHIL SUDHAKAR KURWADE	05	05	05	05	20	20
58	336113	20173086832395	PRAJWAL BHASHKAR THOOL	04	05	05	05	19	19
59	336115	20182080325447	PRANAY SHRAVAN DIWATE	20	20	20	05	20	20
60	336116	201401660113443 2	RANJIT MUKUNDRAO GHORPADE	05	4.5	05	05	20	19
61	336117	NU/A15/73624	RANJIT RAHUL MANKAR	05	05	05	05	20	20
62	336118	20192081517659	ROHIT KHUSHALRAO CHAUDHARI	05	05	05	3.5	18.5	19
63	336119	20181081501002	SACHIN GAJANAN KAKDE	05	3.5	05	05	18.5	19
64	336120	20182090024782	SAGAR SHALIK THAKARE	04	05	05	05	19	19
65	336121	20202066501299	SAMIR ANANDRAO SHENDE	05	05	05	05	20	20
66	336122	20202066501300	SANDESH SUNIL DUPARE	4.5	4.5	05	05	19	19
67	336123	20172081519646	SANGAM SIDDHARTHJI JANGLE	05	05	05	05	20	20
68	336124	20192081517671	SHAILESH LAXMANRAO KALASKAR	04	05	05	05	19	19
69	336125	20192081517675	SHUBHAM LAXMANRAO GEDAM	05	04	05	05	19	19
70	336126	20192081517678	SHUBHAM VIJAYRAO CHAVHAN	05	4.5	05	4.5	19	19
71	336127	20182081500841	SUMIT PURUSHOTTAM KARMORE	05	05	05	04	19	19
72	336128	20191081509942	SUYOG NARAYANRAO DIDPAYE	05	05	05	04	19	19
73	336129	20202066501314	SWAPNIL RAVINDRA KUMARE						19



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Consolidated Internal Split Up Report  
Exam Name: FOURTH SEMESTER B.A. Sem IV  
Subject Name: POLITICAL SCIENCE



College Name: (665) NEW ARTS COMMERCE AND SCIENCE COLLEGE, WARDHA  
Session: Summer-2021

				05	05	05	04	19	
74	336130	20202066501316	SWAPNIL SHARADRAO HATHAJARE	05	4.5	05	4.5	19	19
75	336131	20182081500856	VAIBHAV DAMODHAR GOMASE	05	04	05	05	19	19
76	336133	20202071421159	VAISHALI BALU VIRULKAR	05	05	05	04	19	19
77	336134	20202066501319	VIKAS LAXMAN GAIKWAD	05	05	05	04	19	19
78	336135	20183080422831	VISHAL ARUN ARADE	05	05	05	05	19	19
79	336136	20202066501321	VISHAL SUBHASH BHUJADE	05	05	05	04	19	19
80	336137	20192031220672	VISHAL SUDHAKAR MOHARLE	05	05	05	05	20	20
81	336138	20202066501323	YASH RUPAM GOWARDHAN	05	04	05	04	19	19
82	336139	20202066501325	YOGESH ASHOK WALGAONKAR	05	4.5	4.5	05	19	19
83	965512	201501660068211 4	NIKHIL DNYANESHWARRAO GONDE	4.5	05	4.5	4.5	18.5	19

  
SUBJECT TEACHER

  
HOD



  
IGAC Co-ordinator  
New Arts, Commerce & Science  
College, WARDHA

  
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Consolidated Internal Split Up Report  
Exam Name: FOURTH SEMESTER B.A. Sem IV  
Subject Name: POLITICAL SCIENCE

College Name: (665) NEW ARTS COMMERCE AND SCIENCE COLLEGE, WARDHA  
Session: Summer-2021



**RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY**

<https://www.nagpur.university>

**Internal Report**

Exam Name: FOURTH SEMESTER B.A. sem  
Subject Name: POL.SC  
College Name: (665) NEW ARTS & COMMERCE COLLEGE  
Session: Summer-2021

Sr	Seat No	Enrollment	Student Name	Marks / Max-20
1	336027	20202066501180	AAPRIN HABIBA SHEKH	20
2	336028	20202066501182	ANKITA SATISH BAILBODE	20
3	336029	20202066501184	ASHWINI PURUSHOTTAM NIKUDE	20
4	336031	20202066501187	BHAGYAREKHA GAJANAN NEWARE	19
5	336032	20202066501188	BHAJRAVI ARUN WALDE	20
6	336034	20202066501190	DHANASHRI VILASRAO KONALE	20
7	336035	20202066501191	DIKSHA SANDHY PATIL	20
8	336036	20192081517367	DEEPAJI MORESHWAR DHOTE	19
9	336037	20202066501193	DEVYA SUKHDEV KADHAV	20
10	336038	20202066501194	DEVYA YOGESH SALVE	20
11	336040	20202066501196	GAYATRI ARVIND DAHELKAR	20
12	336041	20202066501199	KALPANA VILAS SURYAWANSHI	20
13	336044	NU/A15/90054	KHUSHABU RAJU SHIVANKAR	19
14	336046	20192081517577	KOMAL SONBATE RAUT	20
15	336049	20202066501207	MAYURI ANKUSHRAO ZOD	20
16	336050	20202066501210	MINAL DEVIDASRAO KOHLE	20
17	336053	20202066501218	PALLAVI VITTHAL KHANDALKAR	20
18	336055	20202066501220	POOJA DILIPRAO KURWADE	20
19	336056	20202066501227	POOJA RANVIR ATRAM	20
20	336057	20192081517585	PRACHI PRAVIN LOKHANDE	20
21	336059	20202066501221	PRANJALIE DIVYANESHWAR EEWANATE	20
22	336060	20192081517560	PRATIKSHA NARANJAN KAMBLE	19
23	336061	20175081530006	PIYU PURUSHOTTAM EVNATE	20
24	336062	20202066501224	PRITHVIKA KALIN NADE	20
25	336063	20202066501228	RUNAM PADMAKAR WITOURNE	20



IQAC Coordinator  
New Arts, Commerce & Science  
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Consolidated Internal Split Up Report  
Exam Name: FOURTH SEMESTER B.Sc. Sem VI  
Subject Name: BIOTECHNOLOGY PAPER I

College Name: (665) NEW ARTS COMMERCE AND SCIENCE COLLEGE, WARDHA  
Session: Summer-2020

Sr	Seat No	Enrollment	Student Name	Model TEST I	CIE	Average	Final Marks
				Max Marks 05	Max Marks 05		Max Marks 10
1	319384	20173081514140	TUSHAR KRUSHNA KADU	5	3	8	8
2	319385	20181081500706	AMISHA BANDUJI WANKAR	4.5	4	9	9
3	319386	20181081500709	ANJALI PRAMODRRAO CHALPE	5	5	10	10
4	319387	20181081500694	AACHAL DNYANESHWAR HADKE	5	4	9	9
5	319388	20181081500695	AACHAL SIDDHARTH GODBOLE	5	5	10	10
6	319389	20181081500698	AASHIKA GAJANANRAO DHAGE	5	5	9	9
7	319390	20181081500700	ACHAL ASHOKRAO GULHANE	4	5	9	9
8	319391	20181081500711	ANKITA GAJANAN PISUDE	5	4	9	9
9	319392	20150166012634 92	AVANTI VASANTRAO KATHANE	5	4	9	9
10	319393	20181081500734	CHITRA DHANRAJ WANKAR	4	5	9	9
11	319394	20173081513904	DARSHANA SUNILRAO KADAM	5	3	8	8
12	319395	20181081500740	DIKSHA INDRAJIT DAWALE	4	5	9	9
13	319396	20150166012634 22	DIPALI RAJESHRAO GOMASE	5	4	9	9
14	319397	20181081500753	GOURI GAJENDRA MULEY	5	5	10	10
15	319398	20181081500756	HARSHADA MAHADEORAO SHASTRAKAR	5	3	8	8
16	319399	20173011512927	KAJAL ARUNRAO ZOTING	4	5	9	9
17	319400	20130166003558 82	KAJAL MANIKRAO WANKAR	5	3	8	8
18	319401	20181081500765	KAMINI KISHOR BHOGE	5	5	10	10



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19	319402	20181081500769	KIMAYA MORESHWAR VAITAGE	5	4	9	9
20	319403	20181081500778	KOMAL SUDHAKARRAO BORKUTE	4	5	9	9
21	319404	20181081500781	KUNALI VINOD GONDANE	5	5	10	10
22	319405	20173081513939	MAYURI VIJAYRAO GAWANDE	4	5	9	9
23	319406	20150166012632 91	MAYURI VINODRAO AGLAWE	5	5	10	10
24	319407	20181081500790	MAYURI WALMIK VAIDYA	5	4	9	9
25	319408	20181081500798	MONALI SANJAYRAO DIGHADE	5	5	10	10
26	319409	20181081500799	MONALI VILASRAO RITHE	5	4	9	9
27	319410	20181081500801	MRUNALI ASHOKRAO CHIKHALKAR	5	5	10	10
28	319411	20181081500810	NIKITA SANJAYRAO SAWARKAR	4	4	8	8
29	319412	20181081500812	NITA MAHADEVRAO TIMANDE	4	4.5	9	9
30	319413	20173081209254	NUPUR SANJAY SINGH	5	5	10	10
31	319414	20181081500813	PALLAVI JOGINDER YADAV	5	4	9	9
32	319415	20150166012637 82	POOJA ASHOKRAO NAVGHARE	4	4	8	8
33	319416	20173081513964	PRACHEE RAMESHRAO DARNE	5	4	9	9
34	319417	20173081513968	PRAMODINI WAMANRAO WARHADE	5	5	10	10
35	319418	20181081500836	PRANALI PRABHAKAR POKALE	4	4	8	8
36	319419	20181081500839	PRANJALI SATISH UGHAE	4	4	8	8
37	319420	20181081500841	PRATIKSHA DILIPRAO DESHMUKH	4	4	8	8
38	319421	20173081513973	PRATIKSHA GANGADHAR BHOKARE	4	4	8	8
39	319422	20173081513993	PURVA DINESH KAKADE	5	5	10	10
40	319423	20181081500855	PURVA HANUMAN MESHAM	4	4	8	8
41	319424	20173081513999	RESHMA MANOHARRAO RAUT	5	3	8	8
42	319425	20181081500867	ROSHNI RAJU PACHE	4	4	8	8
43	319426	20150166012641	RUBINA BABBU SHEIKH	5	5	10	10
						8	8



PRINCIPAL  
New Arts, Commerce & Science  
College, WARDHA

44	319427	20173081514121	RUCHIKA VASANTRAO THAKARE	4	4		
45	319428	20181081500875	SAKSHI BHASKAR BHAGWAT	5	5	10	10
46	319429	20173081514011	SHITAL GHANSHYAM RAGHATATE	5	4	9	9
47	319430	20173081514016	SHIVANI RAJENDRA WAKEKAR	5	5	10	10
48	319431	20181081500895	SHIVANI SANDIP KAWADE	5	4	9	9
49	319432	20181081500897	SHIWANI RAJESHWAR BARDE	5	3	8	8
50	319433	20181081500900	SHRUTIKA MAHADEORAO MENDHULE	5	3	8	8
51	319434	2015016601263894	SNEHAL BHAIYASAHEB PAWAR	5	3	8	8
52	319435	20173081514029	SNEHAL MADHUKARRAO BHAT	4	4	8	8
53	319436	20181081500911	SNEHAL PRAMODRAO DHUMANE	5	4	9	9
54	319437	20181081500918	SWATI GAJANAN TALPEKAR	4	4	8	8
55	319438	20181081500923	TANAYA ATULRAO DESHMUKH	5	4	9	9
56	319439	20181081500935	VAISHNAVI MADHUKARRAO KUMBHARE	5	4	9	9
57	319440	20181081500942	VISHAKHA RAMESH GALANDE	5	5	10	10
58	319441	2015016600827464	ABHINAY NITIN WAKODE	5	4	9	9
59	319442	20181081500950	AKASH PRAKASH MORE	4	4	8	8
60	319443	20173081513885	ANUSHKA KASHINATHRAO THAKARE	5	3	8	8
61	319444	20143081514083	CHINMAY MADANRAO DHONGADI	5	5	10	10
62	319445	20173081514100	MAYUR CHANDRABHAN MEGHARE	5	3	8	8
63	319446	20181081500986	PRANAV RAJENDRA GADEKAR	5	5	10	10

SUBJECT TEACHER



HOD

New Arts, Commerce & Science College, WARDHA

PRINCIPAL  
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New Arts, Commerce & Science College, WARDHA

**INDRAPRASTHA NEW ARTS, COMMERCE & SCIENCE COLLEGE, WARDHA**  
**DEPARTMENT OF SOCIAL WORK**  
**ASSIGNMENT MARKS**

CLASS :- M.S.W. IV SEM

2022-23

SUBJECT : SOCIAL WORK PRACTICUM

Sr.No.	Name of Students	concurrent field work practicum 50	Eductional Tour 15	internal Viva voce	TOTAL MARKS 80
1	AACHAL KAILASRAO YAWALIKAR	46	13	13	72
2	AAKASH PUNDLIKRAO TALWEKAR	45	14	15	74
3	ABHISHEK ANIL TAYADE	45	13	13	71
4	ACHAL GURUDAS PANBUDE	45	13	13	71
5	AJAY TULSHIRAM BHAYMARE	45	13	13	71
6	AKASH SUDHAKARRAO MADANKAR	46	13	13	72
7	AKSHAY BANDUJI PUNDKAR	45	13	13	71
8	ANAMIKA MUKINDA HATAGALE	45	14	15	74
9	ANAND RAMESH JAVANJAL	45	13	13	71
10	ANIKET ASHOKRAO PARATE	45	14	15	74
11	ANJALI RAMESHWAR BOKEY	45	14	15	74
12	ANKITA GAJANANRAO NASARE	45	13	13	71
13	ANKITA RAJENDRA THOTE	45	13	13	71
14	ARUNA SHRIRAM INGALE	45	13	13	71
15	ASHA MUNNA RAMPURE	45	13	13	71
16	ASHISH DNYANESHWAR LODE	45	13	13	71
17	ASHWIN DWARKADAS TAKSANDE	45	13	13	71
18	ASHWINI BABARAO CHAMATE	45	14	15	74
19	ASHWINI SHANKARRAO GIRI	45	13	13	71
20	BHAGYASHRI NARENDRA DESHMUKH	46	13	13	72
21	BHAGYASHRI PRABHUNATH SURANDASE	46	13	13	72
22	BHARAT ARUNRAO DESHMUKH	46	13	13	72
23	BHARTI NATTHUJI MESHRAM	45	14	15	74
24	BHARTI VISHWANATH KASAR	45	14	15	74
25	BHUMESHWAR DIWAKARRAO SHENDE	46	13	13	72
26	BHUMIKA BALU GOLAMBE	46	13	13	72
27	BRUHADATTA JAGANRAO PAKHALE	46	13	13	72
28	BUDDHABHUSHAN SHAMRAO WATHORE	46	13	13	72
29	CHAITALI SUNIL BHENDARKAR	45	13	15	73
30	CHANCHAL BHAURAOJI LANJEWAR	46	13	13	72
31	DEVANAND SHANKAR KULSANGE	46	13	13	72
32	DIKSHA SUDHAKAR THAKARE	46	13	13	72
33	DIPALI AMBADAS SHEDMAKE	45	14	15	74
34	DIVYA VINAYAK NAGPURKAR	45	14	15	74
35	DIVYANI TILOKCHAND SHENDE	45	14	15	74
36	DURGA DULSING RATHOD	45	13	15	73
37	DURGESH MADHAV NEWARE	46	13	13	72

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 Indraprastha New Arts, Commerce  
 & Science College, WARDHA

38	GAJANAN WASUDEO SIDAM	46	13	13	72
39	GAURAV GURUDAS MADAVI	45	14	15	74
40	ISHAN KESHAD POKALE	45	14	15	74
41	ISHATA VISHAL LONDHE	45	14	15	74
42	JAYSHRI MAROTRAO DHORE	45	13	15	74
43	KAJAL DADARAO CHAVHAN	45	13	15	73
44	KAPIL GAUTAMRAO MOON	46	13	13	72
45	KAVITA LILADHARRAO PANBUDE	45	13	15	73
46	KISHOR NAMDEV KHAKARE	46	13	13	72
47	KISHORI SUBHASHRAO KANGALE	45	13	15	73
48	KOMAL ASHOK MERUGWAR	45	14	15	74
49	KOMAL KAILAS WANKHADE	45	14	15	74
50	KOMAL SHALIKRAO WAGHADE	45	14	15	74
51	KOMAL TOLARAM CHAVHAN	45	14	15	74
52	KOYNA MUKINDA HATAGALE	45	14	15	74
53	KUNAL PANDURANG PARISE	45	14	15	74
54	LAXMI RAGHUNATH KHADKE	45	14	15	74
55	MAMATA SANJAY MARASKOLHE	45	14	15	74
56	MANGESH SHRIKRUSHNAJI PATILPAIK	45	14	15	74
57	MANISHA UTTAMRAO WANKHADE	45	14	15	74
58	MANIT RAVINDRA DONGRE	46	13	13	72
59	MAYUR RAMESHRAO SAWANT	45	14	15	74
60	MRUNALI DATTATRAYRAO BUDE	46	13	13	72
61	NAMITA VINOD MESHARAM	46	13	13	72
62	NIKHIL CHANDRAKANT MANKAR	45	14	15	74
63	NIKITA AANNA CHADHOKAR	46	13	13	72
64	NIKITA RAVINDRA HOLEY	45	14	15	74
65	NILESH GAUTAM THAMKE	46	13	13	72
66	NILESH HARIDAS DHURVE	45	14	15	74
67	NILIMA VITTHALRAO KANGATE	46	13	13	72
68	NISHA NARESH VAIRAGADE	45	14	15	74
69	PAYAL CHAKRADHAR KANHERKAR	46	13	13	72
70	PAYAL NAGORAO BHOMALE	45	14	15	74
71	PAYAL SUNIL KURVE	45	14	15	74
72	POOJA ASHOK KHADSE	45	14	15	74
73	POOJA YADAV TIRPUDE	46	13	13	72
74	PRACHI RAJU CHAUDHARI	45	14	15	74
75	PRAGATI HARIBHAU MAHALLE	45	14	15	74
76	PRANJALI UTTAMRAO NAKHALE	45	14	15	74
77	PRATIBHA BHAGWANJI BHONGADE	45	14	15	74
78	PRATIKSHA VINODRAO KHADSE	45	14	15	74
79	PRITESH VINODRAO KHADSE	45	14	15	74
80	RAHUL DATTA KANTESHWAR	45	13	15	73
81	RAXHI RAMESH KULSANGE	46	13	13	72

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**PRINCIPAL**  
Indraprastha New Arts, Commerce  
& Science College, WARDHA.

82	RAVINDRA DNYANESHWAR SAHARE	66	13	12	72
83	RAVINDRA WASUDEO JADHAO	45	14	15	74
84	RINA PRAMODRAO WANKHEDE	45	14	15	74
85	ROHAN HANUMAN GHUME	45	14	15	74
86	RUPESH SHRIKRUSHNA NANDANE	66	13	13	72
87	RUTUJA ANANDRAO ATAKAR	46	13	12	72
88	RUTWIK RAJENDRA KOLHE	45	14	15	74
89	SACHIN AMBADAS SHEJAO	45	14	15	74
90	SACHIN RAMESH CHAVHAN	46	13	13	72
91	SAGAR KISHORRAO GIRDE	45	14	15	74
92	SAGAR LAXMANRAO PAYGHAN	46	13	13	72
93	SAHIL SUDHIR PETHE	46	13	13	72
94	SAMMOHI DILIPRAO KOHALE	45	14	15	74
95	SAVITA DASHRAT AHAKE	45	13	13	71
96	SHIVANI BHASKAR GIRI	45	13	13	71
97	SHIVANI PRABHAKAR BHOYAR	45	14	15	74
98	SHIVANI WAMANRAO NAITAM	45	13	13	71
99	SHIWANI SUDHAKAR KURSANGE	45	14	15	74
100	SHOBHANA PRABHAKARRAO MOHURLE	45	14	15	74
101	SHUBHAM DILIPRAO CHAUDHARI	45	14	15	74
102	SHUBHAM GUNVANT BHAVEKAR	45	13	13	71
103	SHUBHAM RAJENDRA KECHE	45	13	13	71
104	SHUBHAM VILAS BAHALE	45	13	13	71
105	SHWETA GAJANAN BAMBAL	45	14	15	74
106	SHWETA GAJANAN KALE	45	13	13	71
107	SUCHITA GOJENDRA CHIMURKAR	45	13	13	71
108	SUJATA DILIPRAO GOLHAR	45	13	13	71
109	SUMEDH RAMKRUSHNA GUJAR	45	14	15	74
110	SURAJ KISANRAO INGOLE	45	14	15	74
111	SUSHMIT MAHENDRA WANKHEDE	45	14	15	74
112	SWAPNIL RAMRAO WARHADE	45	14	15	74
113	SWAPNIL ZANAKRAO NAPTE	45	14	15	74
114	TAHIR FARUK DUNGE	45	13	13	71
115	UMESH PRAMOD WAGHAMODE	45	13	13	71
116	VAIBHAV CHANDRABHANJI MEGHARE	45	14	15	74
117	VAIBHAV GAJANANRAO MANDADE	45	14	15	74
118	VAISHALI DNYANESHWAR GADGE	45	14	15	74
119	VAISHNAV ANIL RAUT	45	13	15	73
120	VAISHNAVI DHANRAJ SURSAUT	45	14	15	74
121	VAISHNAVI VILASRAO WADE	45	14	15	74
122	VANITA RAJENDRA DHONGADE	45	14	15	74
123	VASANTIKA KISHOR GOMASE	45	14	15	74
124	VINIT WASUDEORAO SONKUSARE	45	14	15	74
125	VIRAJ HEMRAJ KATHOTE	45	14	15	74

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**PRINCIPAL**  
Indraprastha New Arts, Commerce  
& Science College, WARDHA.

126	VISHAL HARIDAS SHINDODE	45	14	15	74
127	WANITA SUDHAKARRAO RATHOD	45	14	15	74
128	CHANDAN RAJU KALE	45	14	15	74
129	SONALI BHAGYAWAN BHAGAT	45	14	15	74

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**PRINCIPAL**  
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& Science College, WARDHA

INDRAPRASTHA NEW ARTS, COMMERCE & SCIENCE COLLEGE, WARDHA

DEPARTMENT OF SOCIAL WORK

ASSIGNMENT MARKS

CLASS :- M.S.W. IV SEM

2022-23

SUBJECT : RESEARCH DISSERTATION

Sr.No.	Name of Students	RESEARCH DISSERTATION BASED ON SPECIALIZATION 50	CLASSROOM PRESENTATIONS 10	INTERNAL VIVA VOCE 20	TOTAL MARKS 80
1	AACHAL KAILASRAO YAWALIKAR	45	9	18	72
2	AAKASH PUNDLIKRAO TALWEKAR	47	9	18	74
3	ABHISHEK ANIL TAYADE	44	9	18	71
4	ACHAL GURUDAS PANBUDE	44	9	18	71
5	AJAY TULSHIRAM BHAYMARE	45	9	17	71
6	AKASH SUDHAKARRAO MADANKAR	44	10	18	72
7	AKSHAY BANDUJI PUNDKAR	44	10	18	72
8	ANAMIKA MUKINDA HATAGALE	47	10	17	74
9	ANAND RAMESH JAVANJAL	47	9	18	72
10	ANIKET ASHOKRAO PARATE	46	10	18	74
11	ANJALI RAMESHWAR BOKEY	45	9	18	72
12	ANKITA GAJANANRAO NASARE	47	9	18	74
13	ANKITA RAJENDRA THOTE	47	10	17	74
14	ARUNA SHRIRAM INGALE	45	10	17	72
15	ASHA MUNNA RAMPURE	44	10	18	72
16	ASHISH DNYANESHWAR LODE	44	10	18	72
17	ASHWIN DWARKADAS TAKSANDE	44	10	18	72
18	ASHWINI BABARAO CHAMATE	44	10	18	72
19	ASHWINI SHANKARRAO GIRI	44	10	18	72
20	BHAGYASHRI NARENDRA DESHMUKH	44	10	17	71
21	BHAGYASHRI PRABHUNATH SURANDASE	44	10	17	71
22	BHARAT ARUNRAO DESHMUKH	45	10	19	74
23	BHARTI NATTHUJI MESHARAM	46	10	19	75
24	BHARTI VISHWANATH KASAR	44	10	18	72
25	BHUMESHWAR DIWAKARRAO SHENDE	46	10	18	74
26	BHUMIKA BALU GOLAMBE	45	10	19	74
27	BRUHADATTA JAGANRAO PAKHALE	45	10	17	72
28	BUDDHABHUSHAN SHAMRAO WATHORE	45	10	19	74
29	CHAITALI SUNIL BHENDARKAR	45	10	17	72
30	CHANCHAL BHAURAOJI LANJEWAR	45	10	19	74
31	DEVANAND SHANKAR KULSANGE	45	10	19	74
32	DIKSHA SUDHAKAR THAKARE	45	10	19	74
33	DIPALI AMBADAS SHEDMAKE	45	10	19	74
34	DIVYA VINAYAK NAGPURKAR	45	10	19	74
35	DIVYANI TILOKCHAND SHENDE	45	10	17	72
36	DURGA DULSING RATHOD	45	10	19	74

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Indraprastha New Arts, Commerce  
& Science College, WARDHA



37	DURGESH MADHAV NEWARE	43	10	19	74
38	GAJANAN WASUDEO SIDAM	43	10	19	74
39	GAURAV GURUDAS MADAVI	43	10	19	74
40	ISHAN KESHAO POKALE	43	10	19	74
41	ISHATA VISHAL LONDHE	43	10	19	74
42	JAYSHRI MAROTRAO DHORE	43	10	19	74
43	KAJAL DADARAO CHAVHAN	43	10	19	74
44	KAPIL GAUTAMRAO MOON	43	10	19	74
45	KAVITA LILADHARRAO PANBUDE	43	10	19	74
46	KISHOR NAMDEV KHAKARE	43	10	19	74
47	KISHORI SUBHASHRAO KANGALE	43	10	17	72
48	KOMAL ASHOK MERUGWAR	43	10	19	74
49	KOMAL KAILAS WANKHADE	43	10	19	74
50	KOMAL SHALIKRAO WAGHADE	43	10	19	74
51	KOMAL TOLARAM CHAVHAN	46	9	18	73
52	KOYNA MUKINDA HATAGALE	46	9	18	73
53	KUNAL PANDURANG PARISE	46	9	18	73
54	LAXMI RAGHUNATH KHADKE	47	9	19	74
55	MAMATA SANJAY MARASKOLHE	48	9	17	72
56	MANGESH SHRIKRUSHNAJI PATILPAIK	46	10	18	74
57	MANISHA UTTAMRAO WANKHADE	46	10	18	74
58	MANIT RAVINDRA DONGRE	46	10	17	72
59	MAYUR RAMESHRAO SAWANT	46	10	17	72
60	MRUNALI DATTATRAYRAO BUDE	46	10	17	72
61	NAMITA VINOD MESHARAM	46	10	17	72
62	NIKHIL CHANDRAKANT MANKAR	46	10	17	72
63	NIKITA AANNA CHADHOKAR	46	10	17	72
64	NIKITA RAVINDRA HOLEY	46	10	18	74
65	NILESH GAUTAM THAMKE	43	10	19	74
66	NILESH HARIDAS DHURVE	43	10	19	74
67	NILIMA VITTHALRAO KANGATE	43	10	19	74
68	NISHA NARESH VAIRAGADE	43	10	19	74
69	PAYAL CHAKRADHAR KANHERKAR	46	9	18	72
70	PAYAL NAGORAO BHOMALE	46	10	18	74
71	PAYAL SUNIL KURVE	46	9	18	72
72	POOJA ASHOK KHADSE	46	9	18	72
73	POOJA YADAV TIRPUDE	46	10	19	74
74	PRACHI RAJU CHAUDHARI	46	9	18	72
75	PRAGATI HARIBHAU MAHALLE	46	10	18	74
76	PRANJALI UTTAMRAO NAKHALE	46	10	18	74
77	PRATIBHA BHAGWANJI BHONGADE	46	10	18	74
78	PRATIKSHA VINODRAO KHADSE	46	10	18	74
79	PRITESH VINODRAO KHADSE	46	10	18	74
80	RAHUL DATTA KANTESHWAR	43	10	18	73

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PRINCIPAL  
Indraprastha New Aits. Commerce  
Sector 14, Gurgaon, HARYANA

81	RAKHI RAMESH KULSANGE	46	9	18	73
82	RAVINDRA DNYANESHWAR SAHARE	46	9	18	73
83	RAVINDRA WASUDEO JADHAO	46	9	18	73
84	RINA PRAMODRAO WANKHEDE	46	9	19	74
85	ROHAN HANUMAN GHUME	46	9	19	74
86	RUPESH SHRIKRUSHNA NANDANE	46	9	17	72
87	RUTUJA ANANDRAO ATAKAR	46	9	18	73
88	RUTWIK RAJENDRA KOLHE	46	9	19	74
89	SACHIN AMBADAS SHEJAO	46	9	18	73
90	SACHIN RAMESH CHAVHAN	46	9	18	73
91	SAGAR KISHORRAO GIRDE	46	9	19	74
92	SAGAR LAXMANRAO PAYGHAN	46	9	18	73
93	SAHIL SUDHIR PETHE	46	9	16	71
94	SAMMOHI DILIPRAO KOHALE	46	9	19	74
95	SAVITA DASHRAT AAHAKE	46	9	16	71
96	SHIVANI BHASKAR GIRI	46	9	18	73
97	SHIVANI PRABHAKAR BHOYAR	46	9	17	72
98	SHIVANI WAMANRAO NAITAM	46	9	17	72
99	SHIWANI SUDHAKAR KURSANGE	46	9	17	72
100	SHOBHANA PRABHAKARRAO MOHURLE	46	9	18	73
101	SHUBHAM DILIPRAO CHAUDHARI	46	9	18	73
102	SHUBHAM GUNVANT BHAVEKAR	46	9	17	72
103	SHUBHAM RAJENDRA KECHE	46	9	17	72
104	SHUBHAM VILAS BAHALE	46	9	17	72
105	SHWETA GAJANAN BAMBAL	46	9	17	72
106	SHWETA GAJANAN KALE	46	9	17	72
107	SUCHITA GOJENDRA CHIMURKAR	46	9	17	72
108	SUJATA DILIPRAO GOLHAR	46	9	17	72
109	SUMEDH RAMKRUSHNA GUJAR	46	9	17	72
110	SURAJ KISANRAO INGOLE	46	10	18	74
111	SUSHMIT MAHENDRA WANKHEDE	46	10	18	74
112	SWAPNIL RAMRAO WARHADE	46	9	17	72
113	SWAPNIL ZANAKRAO NAPTE	46	10	18	74
114	TAHIR FARUK DUNGE	46	10	18	74
115	UMESH PRAMOD WAGHAMODE	46	10	18	74
116	VAIBHAV CHANDRABHANJI MEGHARE	46	10	18	74
117	VAIBHAV GAJANANRAO MANDADE	46	10	18	74
118	VAISHALI DNYANESHWAR GADGE	46	10	18	74
119	VAISHNAV ANIL RAUT	46	10	18	74
120	VAISHNAVI DHANRAJ SURSAUT	46	10	18	74
121	VAISHNAVI VILASRAO WADE	46	10	18	74
122	VANITA RAJENDRA DHONGADE	46	10	18	74
123	VASANTIKA KISHOR GOMASE	46	10	18	74
124	VINIT WASUDEORAO SONKUSARE	46	10	18	74

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PRINCIPAL  
Indraprastha New Art. Commerce  
Santosh College, WARJHA.

125	VIRAJ HEMRAJ KATHOTE	46	9	19	74
126	VISHAL HARIDAS SHINDODE	46	9	19	74
127	WANITA SUDHAKARRAO RATHOD	46	9	19	74
128	CHANDAN RAJU KALE	46	9	19	74
129	SONALI BHAGYAWAN BHAGAT	46	9	19	74

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**PRINCIPAL**  
Indraprastha New Arts, Commerce  
& Science College, WARDHA.



# RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY

Formerly known as Nagpur University



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# Rashtrasant Tukadoji Maharaj Nagpur University

Formerly known as Nagpur University



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Grade Entry

EVS Grade Entry



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### Internal Marks

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Winter-2023



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Faculty of Humanities



Select Exam

FOURTH SEMESTER B.



Select Subject

MARATHI



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Theory Internal



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Combine Report



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### Internal Marks

Select Session

Winter-2023

Select Faculty

Faculty of Humanities

Select Exam

FOURTH SEMESTER B

Select Subject

MARATHI

Select Internal Mode

Theory Internal

Select Report Type

---Select Report Type

Please enter '-1' for absent and '-3' for unfair and '-9' for blank

Sr. No.	Name	Roll No	Marks
1	DIVYANI MORESHWAR JUMDE	161233	20

2	ESHA RAJESH DURGUDE	161234	19
3	KHUSHBOO ASHOK SAHU	161238	19
4	KIRAN DILIPRAO ONKAR	161239	19
5	KOMAL PRAMOD UIKEY	161241	19
6	MANISHA DILIP TALWEKAR	161242	19
7	MANSI AVINASH CHOPADE	161243	19
8	MONALI KAILASRAO MARAPE	161244	19
9	MONALI SUKHDEVRAO RAJURKAR	161245	19
10	NEHA RAMRAO MANDHARE	161246	19
11	NIKITA SANJAY KAMUNKAR	161249	19
12	NISHA	161252	19



# New Arts, Commerce & Science College, Wardha.

## PRACTICAL Note Book

2018 - 2019

Assignment

Name Poojik Naresh Nishant

Class B.A V sem.

Section (Political science)

Roll No. \_\_\_\_\_ Year 2018-19



# प्रमाणपत्र

सदर प्रमाणपत्र खाली दिलेल्या विषयाचे प्रकल्प लेखन व अहवाल समाधानपूर्वक सादर केल्याबद्दल देण्यात येत आहे.

कुमार/कुमारी प्रलोक नरेखराव निगाने  
 वर्ग विभाग रोल नं. वि. रा. V सभा  
 शाळेचे नाव न्यु इन्डियन कॉमर्स अँड सायन्स कॉलेज वरी  
 प्रकल्पाचे नाव सुखनात्मक राजकारण अर्थ, स्वरूप आणि व्यापारी.  
 मार्गदर्शकाचे नाव या. अचगावे सर सत्र २०१९-२०  
 प्रकल्प सादर केल्याचा दिनांक \_\_\_\_\_ प्राप्त गुण \_\_\_\_\_ श्रेणी \_\_\_\_\_



मार्गदर्शिका / मार्गदर्शक  
**PRINCIPAL**  
 Director Arts, Commerce & Science  
 & Sports, WASHA  
 विभाग प्रमुख / प्राचार्याची सही

## अनुक्रमणीका

अनु.क्रं.	नांव	पान क्रं.	शेरा/स्वाक्षरी
१	सुखनात्मक राजकारण	१	प्रलोक
२	सुखनात्मक राजकारणाचा अर्थ	५	प्रलोक
३	सुखनात्मक राजकारणाचे स्वरूप	७	प्रलोक
४	सुखनात्मक राजकारणाची व्यापारी	१५	प्रलोक
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१०			

# New Arts, Commerce & Science College, Wardha.

## PRACTICAL Note Book

2018 - 2019

Assignment

Name Sanjayrao  
Sangharsh Kamble

Class B.A. IV sem

Section A political science

Roll No. \_\_\_\_\_ Year 2018-2019



## प्रमाणपत्र



सादर प्रमाणपत्र खाली दिलेल्या विषयाचे प्रकल्प लेखन व अहवाल समाधानपूर्वक सादर केल्याबद्दल देण्यात येत आहे.

कुमार/कुमारी <sup>Sangharsh</sup> Sangharsh Kamble  
वर्ग विभाग रोल नं. B.A. IV sem  
शाळेचे नाव New Arts commerce and science college, wardha  
प्रकल्पाचे नाव Constitutions  
मार्गदर्शकाचे नाव Pr. Aachegave Sir सत्र 2018-2019  
प्रकल्प सादर केल्याचा दिनांक \_\_\_\_\_ प्राप्त गुण \_\_\_\_\_ श्रेणी \_\_\_\_\_



मार्गदर्शिका / मार्गदर्शक प्रमोदी

विभाग प्रमुख / प्राचार्याची संधी /A.  
**PRINCIPAL**  
New Arts, Commerce & Science  
College, WARDHA

### अनुक्रमणीका

अनु.क्रं.	नांव	पान क्रं.	शेरा/स्वाक्षरी
१	संविधाने	1	
२	संविधानाचा उर्ध्व व व्याख्या	४	
३	संविधानाचे स्वरूप	11	
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# New Arts, Commerce & Science College, Wardha.

## PRACTICAL Note Book

2018 - 2019

Assignment

Name Kunaf Haeikisaneco Bhyade

Class B.A V sem

Section (Political Science)

Roll No. \_\_\_\_\_ Year 2018-19



# प्रमाणपत्र

सदर प्रमाणपत्र खाली दिलेल्या विषयाचे प्रकल्प लेखन व अहवाल समाधानपूर्वक सादर केल्याबद्दल देण्यात येत आहे.

कुमार/कुमारी कुशाग्र हरिडीलवाग कुजारे  
 वर्ग विभाग रोल नं. बि. अ. ४ बी  
 शाळेचे नाव न्यु. आर्ट्स, कॉमर्स अँड सायन्स डॉल्फिन वर्ध  
 प्रकल्पाचे नाव तुळनात्मक राजकारण, उत्पत्ती, स्वरूप, आणि व्याप्ती  
 मार्गदर्शकाचे नाव प्रा. अच्युताचार्य सर  
 प्रकल्प सादर केल्याचा दिनांक 15/10/2023 प्राप्त गुण \_\_\_\_\_ श्रेणी \_\_\_\_\_



मार्गदर्शिका / मार्गदर्शक

**PATRONAL**  
New Arts, Commerce & Science  
विभाग प्रमुख / प्राचार्य/सही

## अनुक्रमणीका

अनु.क्रं.	नांव	पान क्रं.	शेरा/स्वाक्षरी
१	तुळनात्मक राजकारण	1	कुशाग्र
२	तुळनात्मक राजकारणाचा उत्पत्ती	5	कुशाग्र
३	तुळनात्मक राजकारणाचे स्वरूप	9	कुशाग्र
४	तुळनात्मक राजकारणाची व्याप्ती	13	कुशाग्र
५			
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# New Arts, Commerce & Science College, Wardha.

## PRACTICAL Note Book

2018 - 2019

Assignment

Name Rutuja Sadhakar, narlam.

Class B.A 1<sup>st</sup> sem.

Section 2018 - 19

Roll No. \_\_\_\_\_ Year 2018 - 19



## प्रमाणपत्र



सादर प्रमाणपत्र खाली दिलेल्या विषयाचे प्रकल्प लेखन व अहवाल समाधानपूर्वक सादर केल्याबद्दल देण्यात येत आहे.

कुमार/कुमारी प्रद्युम्ना कुल्याकर्नाप वर्तमान

वर्ग विभाग रोल नं. \_\_\_\_\_

शाळेचे नाव बु. ज. वि. कॉमर्स अँड सायन्स कॉलेज वर्धा.

प्रकल्पाचे नाव समता

मार्गदर्शकाचे नाव डॉ. प्रमोद जाधवगिरी सत्र 2018-19

प्रकल्प सादर केल्याचा दिनांक 10/10/2018 प्राप्त गुण \_\_\_\_\_ श्रेणी \_\_\_\_\_



मार्गदर्शिका / मार्गदर्शक

PRINCIPAL

विभाग प्रमुख / प्राचार्याची सही

PRINCIPAL

New Arts, Commerce & Science  
College, WARDHA

### अनुक्रमणीका

अनु.क्रं.	नांव	पान क्रं.	शेरा/स्वाक्षरी
१	समता संकल्पना	०	प्रिफिनाय
२	अर्थ	५	प्रिफिनाय
३	समतेचे प्रकार	८	प्रिफिनाय
४	समतेचे स्वरूप	१०	प्रिफिनाय
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# New Arts, Commerce & Science College, Wardha.

## PRACTICAL Note Book

2018 - 2019

Assignment

Name Rohini Dasheath Kohale

Class B.A 1<sup>st</sup> Sem

Section 2018-19

Roll No. \_\_\_\_\_ Year 2018-19



## प्रमाणपत्र



सदर प्रमाणपत्र खाली दिलेल्या विषयाचे प्रकल्प लेखन व अहवाल समाधानपूर्वक सादर केल्याबद्दल देण्यात येत आहे.

कुमार/कुमारी रोहिणी व्हराकराव छोटके  
वर्ग विभाग रोल नं. \_\_\_\_\_  
शाळेचे नाव व्हेमू आर्ट्स कॉमर्स अँड सायन्स कॉलेज वरधा  
प्रकल्पाचे नाव सामता संकल्पना  
मार्गदर्शकाचे नाव डॉ. प्रमोद भावेगाव सत्र 2018-19  
प्रकल्प सादर केल्याचा दिनांक 11/10/2018 प्राप्त गुण \_\_\_\_\_ श्रेणी \_\_\_\_\_



मार्गदर्शिका / मार्गदर्शक  
**PRINCIPAL**  
Indraprastha New Arts, Commerce  
& Science College, WABDHA.  
विभाग प्रमुख / प्राचार्याची सही  
**PRINCIPAL**  
New Arts, Commerce & Science  
College, WABDHA

### अनुक्रमणीका

अनु.क्रं.	नांव	पान क्रं.	शेरा/स्वाक्षरी
१	सामता संकल्पना	१	प्रमाण १११
२	अर्थ	३	प्रमाण १११
३	सामतेचे प्रहार	६	प्रमाण १११
४	सामतेचे स्वल्प	१०	प्रमाण १११
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# New Arts, Commerce & Science College, Wardha.

## PRACTICAL

### Note Book

2018 - 2019

Assignment

Name Rakesh J. Shende

Class B.A. 1st Year

Section Political Science

Roll No. \_\_\_\_\_ Year 2018-19



## प्रमाणपत्र



सादर प्रमाणपत्र खाली दिलेल्या विषयाचे प्रकल्प लेखन व अहवाल समाधानपूर्वक सादर केल्याबद्दल देण्यात येत आहे.

कुमार/कुमारी रमेश जीवन शेंडे  
वर्ग विभाग रोल नं. B.A प्रथम वर्ष  
शाळेचे नाव न्यु झॉर्श कॉलेज वर्धा  
प्रकल्पाचे नाव राजकीय सिद्धांत  
मार्गदर्शकाचे नाव आनंदराव सर सत्र 2018 - 2019  
प्रकल्प सादर केल्याचा दिनांक \_\_\_\_\_ प्राप्त गुण \_\_\_\_\_ श्रेणी \_\_\_\_\_



मार्गदर्शिका / मार्गदर्शक  
**PRINCIPAL**  
New Arts, Commerce & Science College  
& College, Warananagar  
विभाग प्रमुख/प्रत्यायाची सही

### अनुक्रमणीका

अनु.क्रं.	नांव	पान क्रं.	शेरा/स्वाक्षरी
१	राजकीय सिद्धांत	1	
२	राजकीय सिद्धांताचे स्वरूप	6	
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# New Arts, Commerce & Science College, Wardha.

## PRACTICAL Note Book

2018 - 2019

Assignment

Name Ashwadeep A. Salpute

Class B.A.-I Sem (Arts)

Section \_\_\_\_\_

Roll No. \_\_\_\_\_ Year 20-18-19



## प्रमाणपत्र



सादर प्रमाणपत्र खाली दिलेल्या विषयाचे प्रकल्प लेखन व अहवाल समाधानपूर्वक सादर केल्याबद्दल देण्यात येत आहे.

कुमार/कुमारी अश्विनी म. सातपुते.

वर्ग विभाग रोल नं. \_\_\_\_\_

शाळेचे नाव New Arts Commerce and Sci College Waranthi

प्रकल्पाचे नाव स्वातंत्र्य

मार्गदर्शकाचे नाव अश्विनी सर सत्र \_\_\_\_\_

प्रकल्प सादर केल्याचा दिनांक \_\_\_\_\_ प्राप्त गुण \_\_\_\_\_ श्रेणी \_\_\_\_\_



मार्गदर्शक / मार्गदर्शक \_\_\_\_\_

**PRINCIPAL**  
Indra Prastha Commerce & Science  
New Arts, Commerce & Science  
Science College Waranthi  
विभागाध्यक्ष / प्राचार्याची सही

## अनुक्रमणीका

अनु.क्रं.	नांव	पान क्रं.	शेरा/स्वाक्षरी
१	स्वातंत्र्य	१	प्रमाणित
२	स्वातंत्र्याचे प्रकार	२	प्रमाणित
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# New Arts, Commerce & Science College, Wardha.

## PRACTICAL Note Book

2018 - 2019

Assignments

Name Shabnam Vijay Solate

Class B.A. III [V] sem

Section \_\_\_\_\_

Roll No. \_\_\_\_\_ Year 2018-2019



# प्रमाणपत्र



सादर प्रमाणपत्र खाली दिलेल्या विषयाचे प्रकल्प लेखन व अहवाल समाधानपूर्वक सादर केल्याबद्दल देण्यात येत आहे.

कुमार/कुमारी शाबनम विजय सपट

वर्ग विभाग रोल नं. \_\_\_\_\_

शाळेचे नाव न्यू-अर्ट्स, कॉमर्स अँड सायन्स कॉलेज, वरधा

प्रकल्पाचे नाव अमेरिकेच्या संविधानाची वैशिष्ट्ये

मार्गदर्शकाचे नाव प्रमोद झोचिंगोवे सत्र 2018-2019

प्रकल्प सादर केल्याचा दिनांक 10/10/18 प्राप्त गुण \_\_\_\_\_ श्रेणी \_\_\_\_\_



मार्गदर्शिका / मार्गदर्शक \_\_\_\_\_  
**PRINCIPAL**  
New Arts, Commerce & Science  
& विद्यार्थ्यांचा शिक्का

## अनुक्रमणीका

अनु.क्रं.	नांव	पान क्रं.	शेरा/स्वाक्षरी
१	अमेरिकेच्या संविधानाची वैशिष्ट्ये	१	(प्रमोद)
२	अमेरिकेच्या राजकीय व्यवस्थेची वैशिष्ट्ये	५	प्रमोद
३	संविधानाचे गुणधर्म	७	(प्रमोद)
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# New Arts, Commerce & Science College, Wardha

## PRACTICAL

### Note Book

2019 - 2020

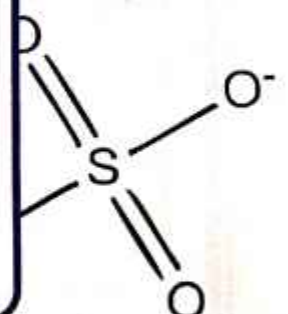
Assignment

Name: Aarjeen Habibi Sheikh

Class: B.A. III semester

Subject: Political Science

Roll No.: \_\_\_\_\_







# New Arts, Commerce & Science College, Wardha

## PRACTICAL

## Note Book

20 19 - 20 20

## Assignment

Name: Yogesh Pratiksha Khemalake

Class: B.A. 5 sem.

Subject: political science

Roll No.: \_\_\_\_\_



Shrikrupa

# CERTIFICATE

This Is To Certify ,

That the Practical written in this practical book is satisfactorily performed by Master/Miss Yogesh Diwakar Khardare  
Class B.A.V<sup>th</sup> Sec. \_\_\_\_\_ Roll No. \_\_\_\_\_

School/College Name: New Arts Commerce and Science  
Assignment college, Wardha  
Practical Name: \_\_\_\_\_

Guided By: Pramod Achejawale

Date: 15/10/2018 Marke: \_\_\_\_\_ Class \_\_\_\_\_



School/College Seal

प्रमोद अचैजावले  
Subject Teacher  
PRINCIPAL  
New Arts, Commerce & Science  
& College, Wardha, Dist. Wardha.  
HOD/Principal

## INDEX

Sr.No.	Title	Pg. No.	Remark/Sign.
①	तुलनात्मक शासन आणि राजकारण	1	प्रमोद अचैजावले
	अर्थ व व्याप्ती	4	प्रमोद अचैजावले
②	तुलनात्मक राजनित्याचे स्वरूप	6	प्रमोद अचैजावले
③	संकल्पना आणि सिद्धांत	9	प्रमोद अचैजावले
④	तुलनात्मक शासनाच्या अध्ययनाचे महत्त्व	16	प्रमोद अचैजावले

New Art's Commerce and  
Science College

Name : Amisha Ashok Lokhande

Class : 2nd Year

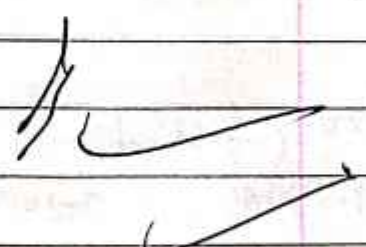
Sub : Geography Assignment

Sem : III

Year - 2022 - 2023

~~five~~

year - 2022 - 2023



PRINCIPAL  
Indraprastha  
& Science College, JARAJA.

Indraprasth New Art's Commerce  
& Science College, Wardha.

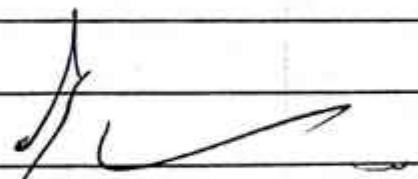
Year - 2022 - 2023  
Name :- Amishy Ashok Lokhande

Class :- (B.A.) 3<sup>rd</sup> yr 5<sup>th</sup> Sem

Sub :- Geography Assignment

year - 2022 - 2023

~~file~~



PRINCIPAL  
Indraprasth New Art's, Commerce  
& Science College, Wardha.

नाम :- प्राची बाबाबाव बावळ.

कॉलेज :- इंद्रप्रस्थ न्यू आर्ट्स,  
कॉमर्स, अन्ड सायन्स  
कॉलेज, वरधा.

वर्ष - 2022-2023  
कॉर्स :- B.A. 5<sup>th</sup> sem

विषय :- भूगोल.

Geography - Assignment

क्रमांक

year. 2022-2023



PRINCIPAL  
Indraprastha New Arts, Commerce  
& Science College, Warde, TA.

विद्यया परम् देवतं.

Page No.	
Date	

Name - Pragati Prabhakar Wike.

Subject - Geography Assignment. Book.

College - ~~Indraprasth~~ New Arts Commerce  
and Science College Wardha

Class - B.A. 1<sup>st</sup> sem

Year - 2022-23

~~for~~

Year - 2023-23

PRINCIPAL

Indraprasth New Arts, Commerce  
& Science College Wardha



# Certificate

Student Name Reshma S. Dongare

Std. M.A. I sem Division \_\_\_\_\_ Roll Number \_\_\_\_\_

Name of the Institution Indraprastha New Arts Comm. & Sci. College

Reg. \_\_\_\_\_ Examination Center \_\_\_\_\_

Prescribed by R.T.M. Nagpur University / Board for

Loaboratory of this School / College in the

Year 2022 To 2023

This is to certify that experiments  
written in the index have been  
performed by the student  
satisfactorily

Date \_\_\_\_\_

Teacher's Signature

School / College Stamp

Head Master's Signature

Indraprastha  
& Science College, WARDHA.

Shrikrupa

# Certificate

Student Name Reshma S. Dongare

Std. M.A 1 sem Division \_\_\_\_\_ Roll Number \_\_\_\_\_

Name of the Institution Indraprastha New Arts comm & sci, college

Reg. \_\_\_\_\_ Examination Center \_\_\_\_\_

Prescribed by RTM Nagpur University / Board for

Loaboratory of this School / College in the

Year 2022 To 2023

**This is to certify that experiments  
written in the index have been  
performed by the student  
satisfactorily**

Date \_\_\_\_\_

Teacher's Signature

School / College Stamp

Head Master's Signature

Indraprastha New Arts comm & sci, college, WARJHA.  
Shrikrupa

Indraprastha New Arts, Commerce  
And Science College Wardha  
Department of Biotechnology  
Academic Session:- 2022 - 2023

Ku :- Asmita Rajan Kudmate

Sub :- Biotechnology - I Assignment

Assignment

Class :- B.S.C. II sem.

Principal

PRINCIPAL

Indraprastha New Arts, Commerce  
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Dept. of Biotechnology  
Indraprastha New Arts Commerce  
and Science College, Wardha

R. R. R. R.

Subject teacher

Q.1 Explain in detail typical bacterial growth curve.

- a) log phase :- When microorganism are introduced into fresh culture medium usually no immediate rise in cell number occurs therefore this period is called the log phase cell division does not take place right away and there is no rise in mass. The cell is synthesizing new compounds.
- A log phase period prior to the start of cell division can be necessary for a variety of reasons. The cells may be old and depleted of ATP, essential cofactors and ribosomes. These must be synthesized before growth can begin.
  - The log phase varies considerably in length with the condition of the microorganisms and the nature of the medium. This phase may be quite long if the inoculum is from an old culture or one that has been refrigerated.
  - Inoculation of a culture into a chemically different medium also results in a longer log phase. On the other hand, when the other hand, when the young vigorously growing exponential phase culture is transferred to fresh medium of the same composition the log phase will be short or absent. Cells then enter the exponential or log phase.

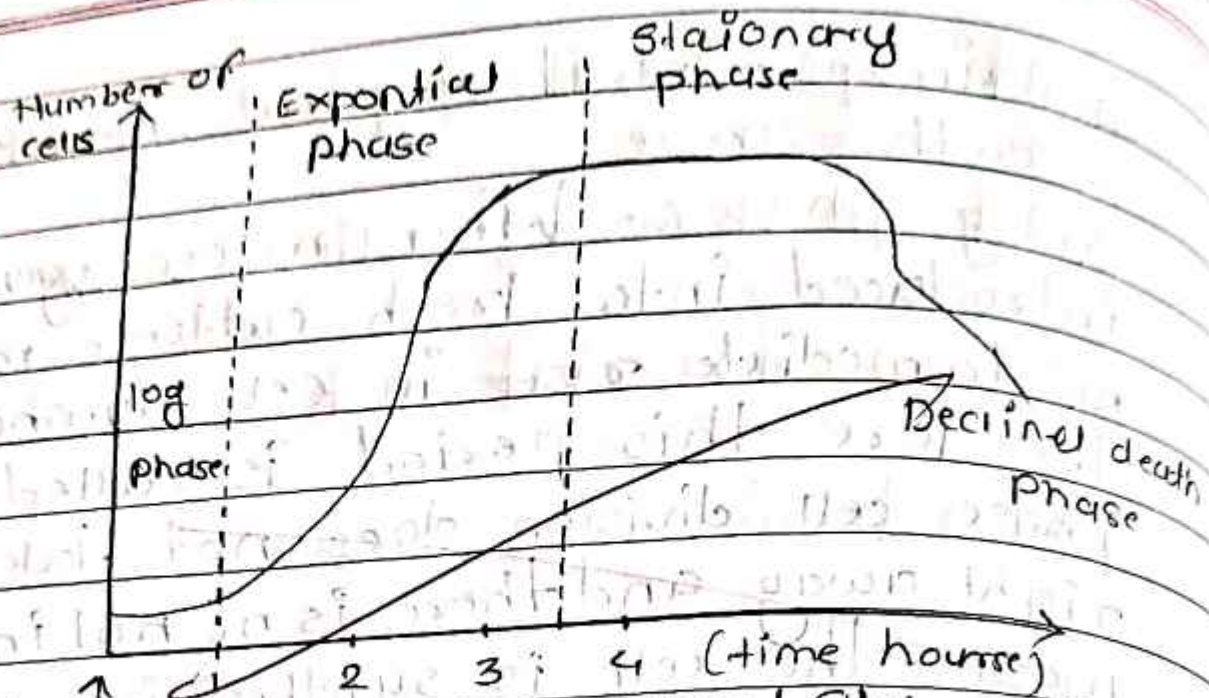


Fig. sigmoid curve for bacterial growth. Shows distinct phases of growth.

B) Exponential or logarithmic (log) phase. During the exponential or log phase microorganisms are growing and dividing at the maximal rate possible as per their growth potential. The nature of the medium, and the condition under which they are growing. Their rate of growth is constant during exponential phase. The microorganisms are dividing and doubling their number at regular intervals because each individual cell divides at a slightly different moment. Growth curve is smooth rather than discrete jumps.

- The population is most uniform in terms of chemical and physiological properties during this phase, therefore exponential phase cultures are usually used in biochemical and physiological studies.
  - This can be seen when bacteria are transferred from a nutritionally poor medium to nutritionally rich medium or vice versa or when microbial growth is limited by low concentration of a required nutrient. The final net growth or yield of cells increases with the initial amount of the nutrient present. This phase is followed by stationary phase.
  - Stationary phase: eventually population growth ceases and the growth curve becomes horizontal plateau. This stationary phase is usually attained by bacteria at a population of  $10^9$  cells/ml. Other microorganisms like algae and protozoa reach a population level of  $10^6$  cells/ml.
  - The final population size depends on the nutrient availability and factors as well as the type of microorganisms being cultured. This may result from a balance between cell division and cell death or population may simply cease to divide though remaining metabolically active.
- Nutrient limitation, oxygen availability, supply

- reaching of critical population level.
- In batch culture, bacteria may enter stationary more changes are in gene expression and physiology. Starving bacteria frequently produce variety of stress proteins.

- The starved cells become harder to kill resistant to temperature changes, oxidative and osmotic stress and other mechanisms.
- Starved cells become harder to kill.

- D) Decline or Death phase: Bifurcated environmental changes like nutrient depletion, toxic waste lead to the decline in number phase. The death of the microbial population like its growth during the exponential phase is ~~growth~~ usually logarithmic. Death is defined to be the irreversible loss of the ability to reproduce.

- The depletion of nutrients, and the subsequent accumulation of metabolic waste produces the other toxic materials in the medium will facilitate the bacterium to move on to death phase. During this phase the bacterium completely loses the ability to reproduce.

- Individual bacteria begin to die due to unfavorable conditions and death is not uniform rate. The number of dead cells exceeds the number of live cells.

organism which can resist the condition can survive in the environment by producing endospores.

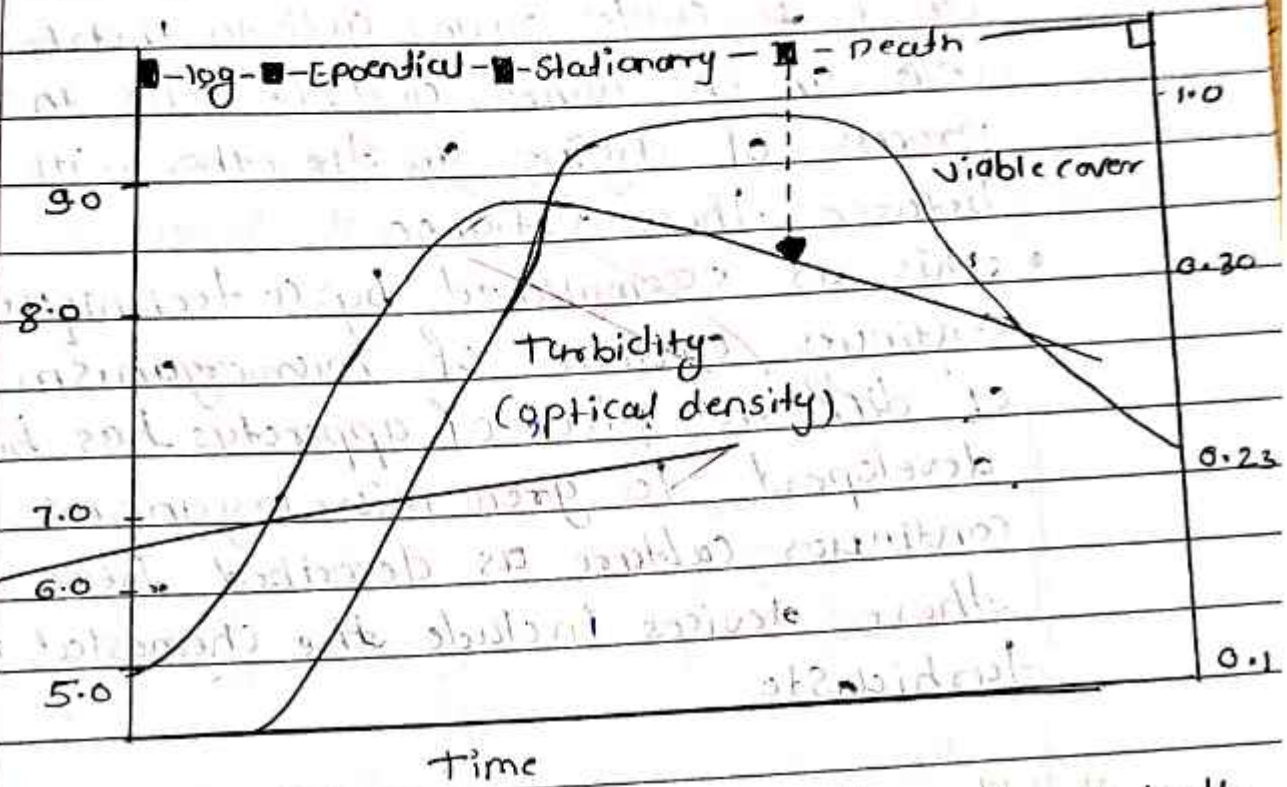


Fig. Typical growth curve Features in a batch cultures.

2) What is continuous culture, describe various method obtain it.

→ It is that culture of microbial population maintained in logarithmic phase of growth at constant environment the typical bacteria growth curve includes three transitional period between growth phase this means that not all the cells are in identical physiological conditions.

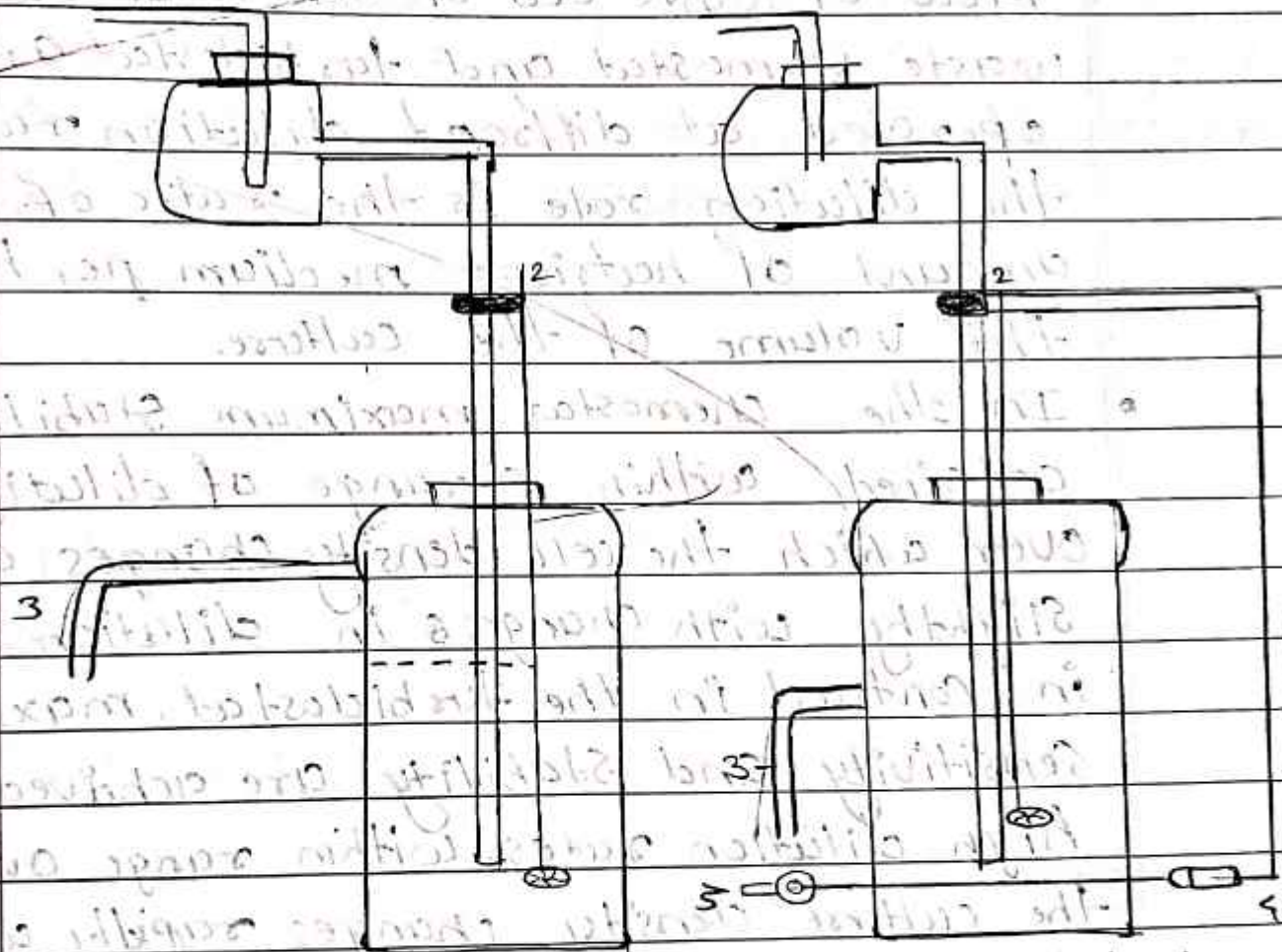


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- This time required for some cells to catch up with others in terms physiological conditions with others in terms growth curve. In cultures young actively metabolizing cells on one hand, and the cells in the process of dying on the other with cells in between these exchange.
  - This is accomplished by a technique called continuous culture of microorganism a variety of different pieces of apparatus has been developed to grow microorganisms in continuous culture as described. Here two of these devices include the chemostat and the turbidostat.

A) The chemostat :- It is a continuous system cultivator in which the medium is thoroughly mixed. To obtain maximum homogeneity the fresh nutrient medium flows into culture vessel from reservoir of sterile medium at a defined and constant rate.

- The volume in the culture vessel is kept constant by a device that allows the culture medium together with accumulated waste products and older and dead cells to leave the culture vessel at the same rate the

level of growth is controlled by maintaining a fixed limiting concentration of a particular. The remaining constituent essential for the growth of the selected organisms are added in the growth limiting nutrient is added into the medium of a concentration below that required for maximum growth in a batch culture (closed vessels).



chemostat

turbidostat

- B) The Turbidostat :- It is another continuous culture apparatus in a turbidostat the system includes an optical sensing device which measures the absorbance of the culture density (turbidity) in the growth vessels change in turbidity ~~retains~~ for increase the passage of light through the culture.
- These changes activated mechanisms that control the flow of nutrient into and the flow of waste out of the main culture waste chemostat and turbidostat are usually operated at different dilution rates. The dilution rate is the ratio of inflow amount of nutrient medium per hour to the volume of the culture.
  - In the chemostat maximum stability is attained within a range of dilution rates over which the cell density changes only slightly with changes in dilution rates in contrast in the turbidostat, maximum sensitivity and stability are achieved at high dilution rates. Within range over which the culture density changes rapidly with dilution rate.
  - Continuous culture system have valuable advantages - (1) They provide a constant source of cells in the logarithmic phase.

growth for the study of physiological and genetics of the logarithmic phase organisms.

(ii) These ~~and~~ systems allow the cells to be grown continuously in limiting concentrations of the nutrient such a growth gives valuable information on the catabolism of the limiting substrate.

(iii) The system can be combined with selective enrichment to isolate an organism which can utilize any particular type of compound as a nutrient this is very important is get rid of common industrial waste products of a poisonous pollutant.

Indraprastha New Arts, Commerce  
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Department of Biotechnology.

Academic session - 2022-23.

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Subject Teacher.

Paper → 1

1. Explain experiments of Louis Pasteur and John Tyndal in support of biogenesis.

→ Louis Pasteur.

\* Despite above experiments the French naturalist Felix Pouchet claimed that microbial growth could occur in sterile nutrient broth without entry of contaminated air. This claim provoked Pasteur to disprove spontaneous generation once and for all.

\* Pasteur first filtered air through cotton and found that objects resembling plant spores had been trapped. If a piece of the cotton was placed in sterile medium after air had been filtered through it, microbial growth appeared.

\* Next he placed nutrient broth in flask heated its neck in a flame, and drew it out into an S-shaped curve, while keeping the end of the neck open to the atmosphere. Pasteur then sterilized the nutrient broth by keeping flask in boiling water bath for few minutes. He then allowed flask to cool. He reported no growth on incubation in the content of the flask even though expo

to the air.

\* when he broke the top of the flask, microbial growth occurred in nutrient broth on incubation. He concluded that absence of microbial growth in broth was due to fact that when air travels through neck of flask it get sterilized and sterile air enters in broth of flask. Sterilization of air before its entry in flask is due to fact that atmospheric air travel through a neck of flask which is long and with bends, so microbes of air get settled in bends of neck of flask.

Pasteur proved microbial growth could occur in sterile nutrient broth with entry of contaminated air.

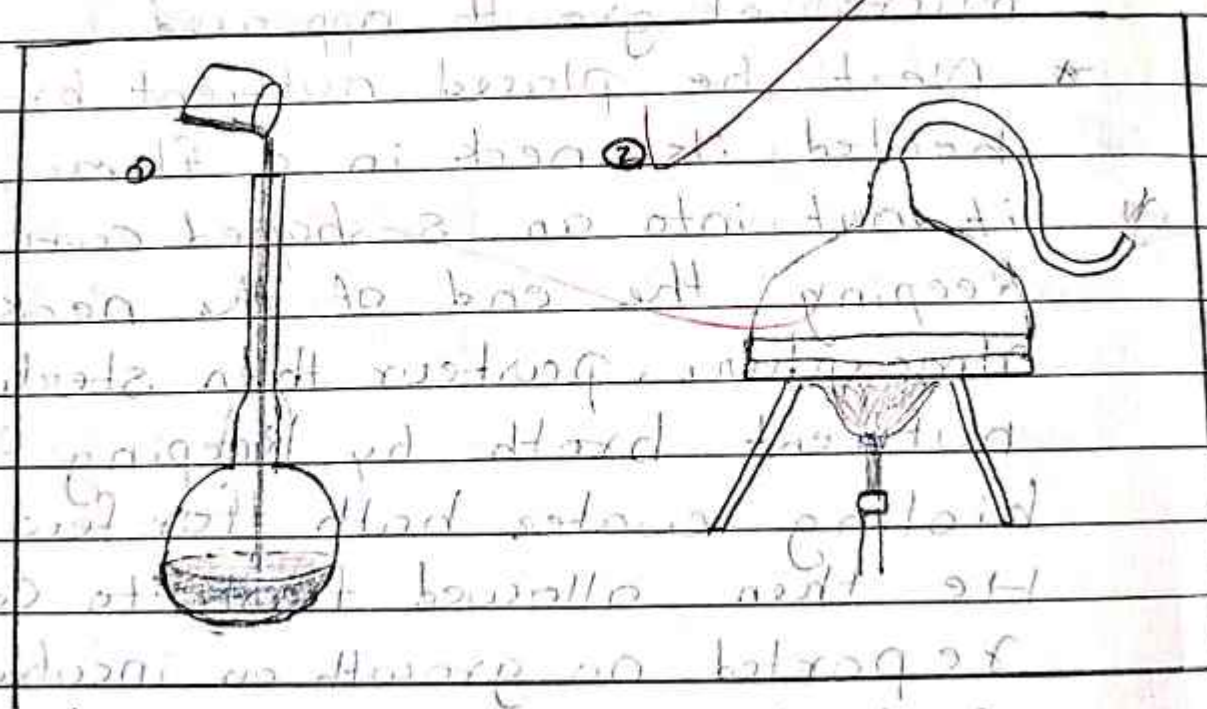


Fig. Pasteur's Swan Neck flask experiment

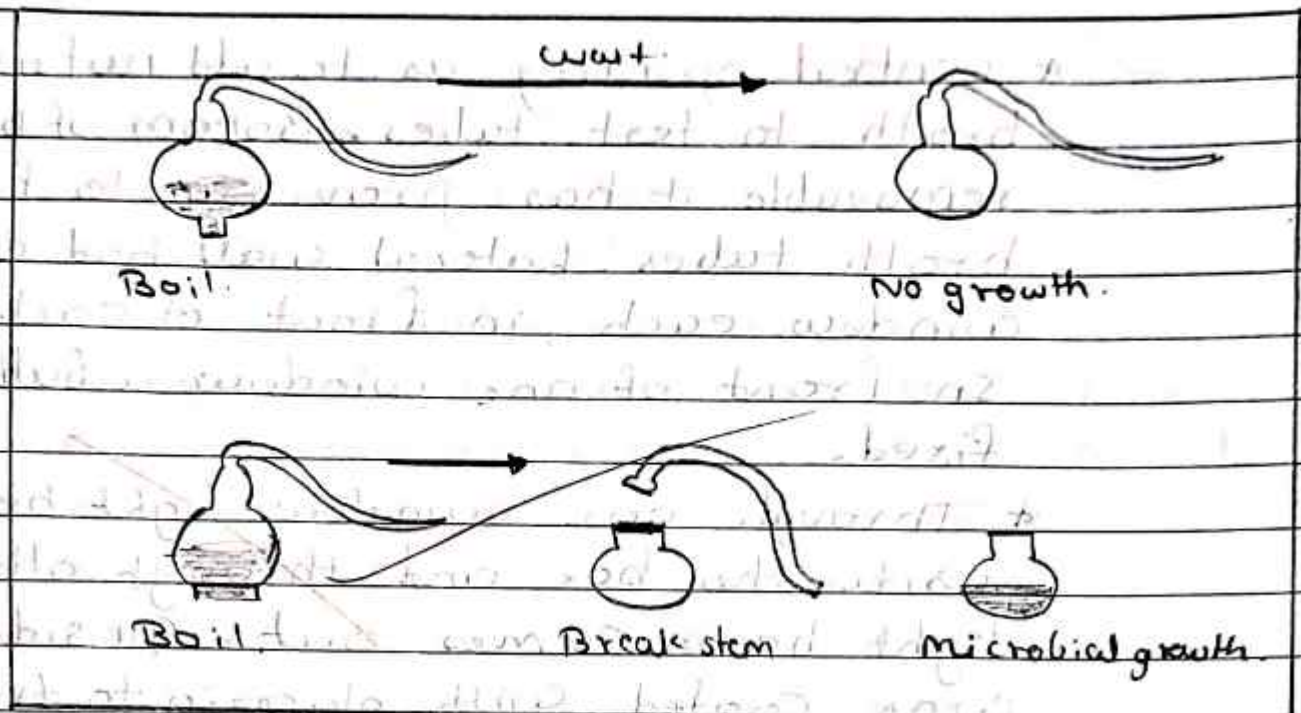


Fig. Complete setup of Pasteur's swan neck flask experiment.  
John Tyndall

★ The English physicist John Tyndall gave a final blow to spontaneous generation by demonstrating that dust carry germs and that if dust was absent; broth remained sterile even if directly exposed to air. He proved dust free air does not contaminate sterile nutrient medium.

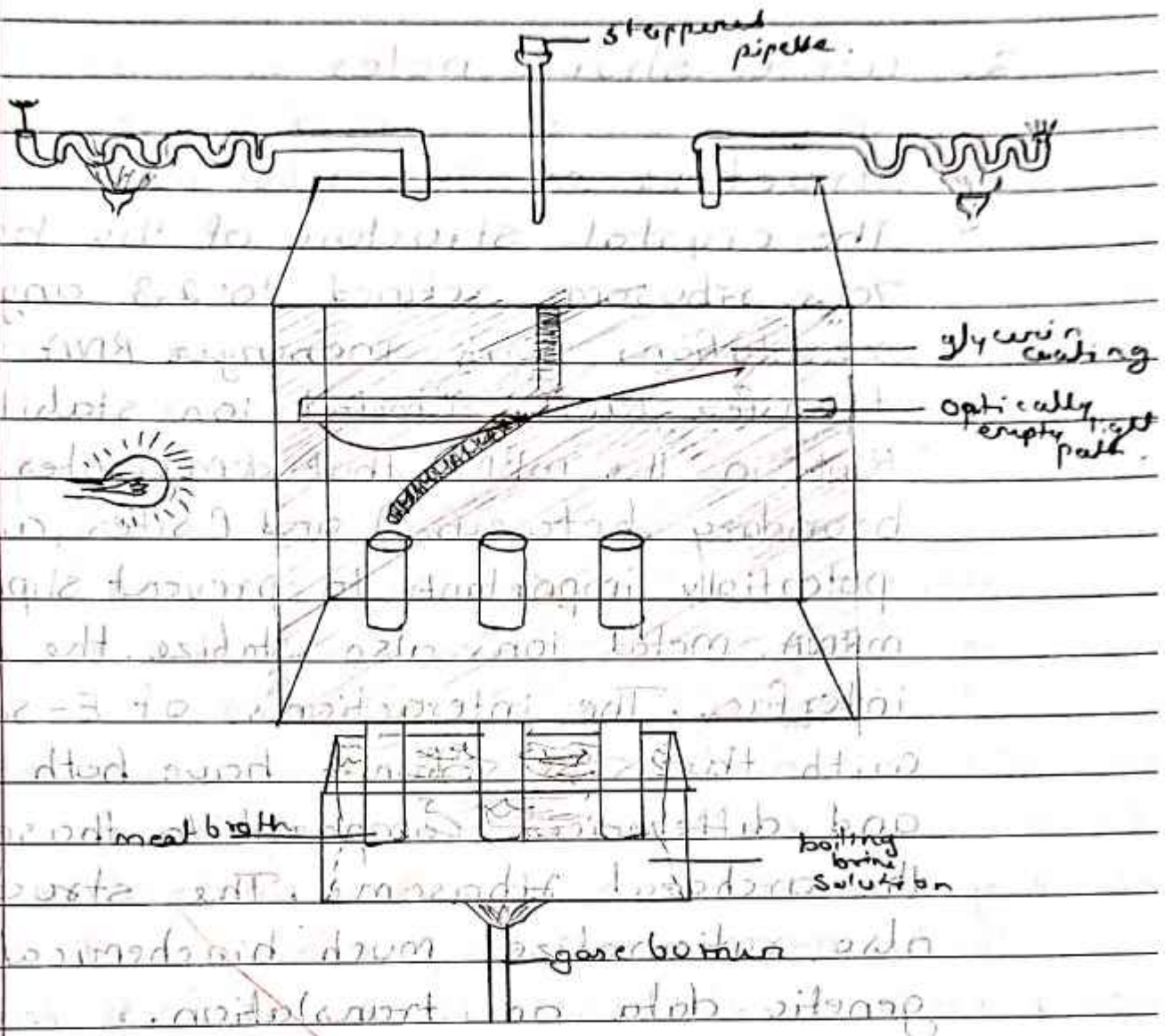
★ John Tyndall used Tyndall box to prove dust free air does not contaminate sterile nutrient medium. Tyndall box has four sides, one top and one bottom. Top of box has two lateral and one central opening. Each lateral opening is connected to convoluted tube.



\* Central opening is to add nutrient broth to test tubes. Bottom of box is removable it has provision to hold broth tubes. lateral wall had one window each, in front of each other. In front of one window a bulb is fixed.

\* Through one window light beam comes inside the box and through other window light beam comes out. All side of box was coated with glycerin to trap dust particles of air present in box. when box was optically inactive, nutrient broth tubes were sterilized. Now outside air was introduced in a box.

\* He observed though outside air was introduced in box, microbial growth did not occur in broth tubes on incubation. He explained, as dust free air is present in Tyndall box, and air entering in flask is also sterile as it is entering through convoluted tubes, air could not contaminate sterile broth of tubes.



Experimental setup of Tyndall box designed by John Tyndall.

When a beam of light is passed through a colloidal solution, the light is scattered in all directions. This is called the Tyndall effect. The Tyndall effect is observed in a colloidal solution because the particles are large enough to scatter light. The Tyndall effect is not observed in a true solution because the particles are too small to scatter light.

2. Write short notes:

a) structure of 70s ribosome

→ The crystal structure of the bacterial 70s ribosome refined to 2.8 angstrom resolutions with messenger RNA and transfer RNA. A metal ion stabilizes a kink in the mRNA that demarcates the boundary between A and P sites, which is potentially important to prevent slippage of mRNA. Metal ions also stabilize the intersubunit interface. The interactions of E-site tRNA with the 50s subunit have both similarities and differences compared to those in the archaeal ribosome. The structure also rationalizes much biochemical and genetic data on translation.

b) R-plasmid.

→ ★ They are circular with double-stranded plasmid.

★ R factors occurs in two sizes:

- 1) large plasmids (mol. wt. 60 million)
- 2) small plasmids (mol. wt. 10 million)

★ Large plasmids are conjugative 'R' factors. To code for the conjugation process,

it contains extra DNA.

★ Small plasmids contain only the 'r' genes. They are not conjugative.

★ It consists of two components.

Resistance transfer factor (RTF): Carries the genes that govern the process of intercellular transfer.

★ Resistant determinant: carries resistant genes for each of the several drugs.

★ The drug resistance is not transferrable in the case when RTF dissociates from the R-determinant.

★ For the spread of the multiple drug resistance in the bacteria, R factors play a vital role.

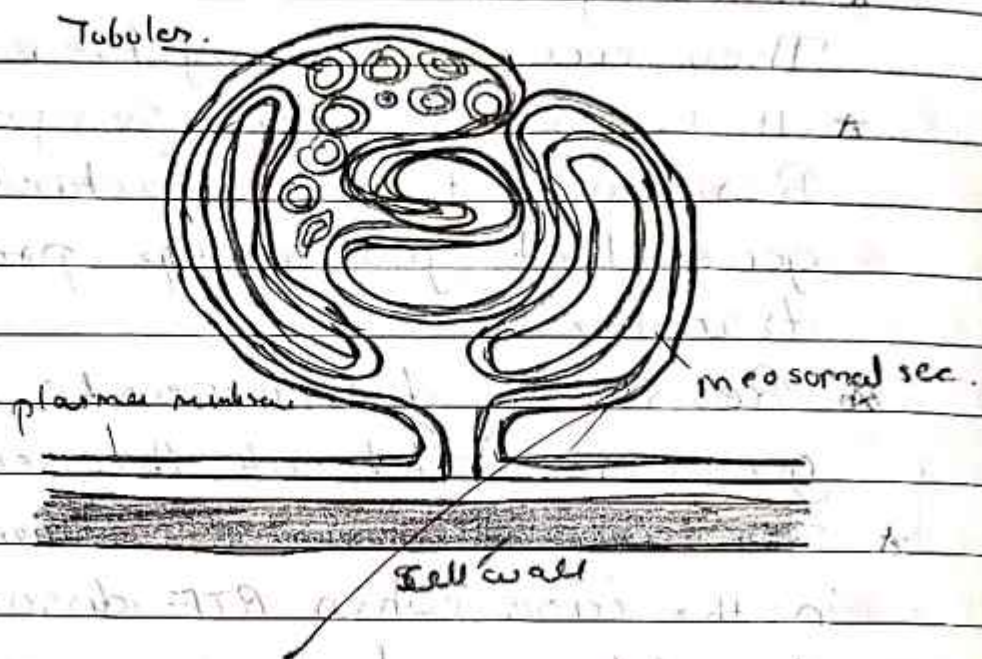
★ Antibiotics can be destroyed and the membrane transport system can be modified.

★ R-factor may carry the resistance genes either one, two or more than these.

★ They may also carry the gene resistance for the metal ions.

★ They also carry resistance to certain bacteriophages by coding for the enzymes.

d) Structure of mesosomes



d) Shape, size and arrangement of bacteria

→ Shape: → \* Most of the bacteria have a rigid cell wall that provides a definite shape to the bacteria while protecting the internal components.

\* Even though this characteristic is valid for the majority of bacteria, they vary in shape that allows them to be classified into different groups based on their forms.

\* The wide variety of shapes is determined by the bacterial cell wall and cytoskeleton.

\* Even though bacteria have a wide

variety of shapes, any one genus typically exhibits a limited subset of morphologies.

Size  $\Rightarrow$   $\star$  Bacteria are, in general one-tenth the size of the eukaryotic cell. On average, the size of bacteria ranges from 0.5 and 5  $\mu\text{m}$ .  $\star$  However, they can be as tiny as 0.3  $\mu\text{m}$  and as large as 0.7 mm.

$\star$  The limit of resolution with the unaided eye is about 200 microns, and as many bacteria are smaller than this size, they are not visible with naked eyes.

Arrangement of bacteria  $\Rightarrow$   $\star$  Cocci bacteria can exist singly, in pairs, in groups of four, in chain, in clusters, or in cubes consisting of eight cells. Cocci may be oval, elongated, or flattened after cell on one side. Cocci may remain attached after cell division.  $\Rightarrow$  Diplococci

$\star$  The Cocci are arranged in pairs

ex  $\rightarrow$  Streptococcus pneumoniae, Moraxella catarrhalis, Neisseria gonorrhoeae, etc.

e) Streptococci  $\star$  They Cocci are arranged in chains, as the cells divide in one plane.

ex  $\rightarrow$  Streptococcus pyogenes, Streptococcus agalactiae

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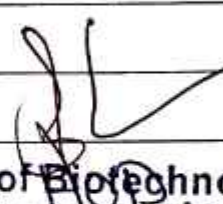
Kus Asmita Gajanan Kudmate

Sub :- Microbiology -II Assignment

class :- B.S.C II Sem.


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Subject Teacher.



Q.1 Explain Bacterial spoilage of vegetables and fruits?

⇒ Ring rot :- Amongst various kind of spoilage bacterial ring rot is the most common and serious vegetable spoilage potato and other tubers are normally affected by this spoilage. Infection in fresh potato plants is required from infected seeds. Causative bacteria is *Corynebacterium michiganensis* formerly known as *sepeclonicum*.

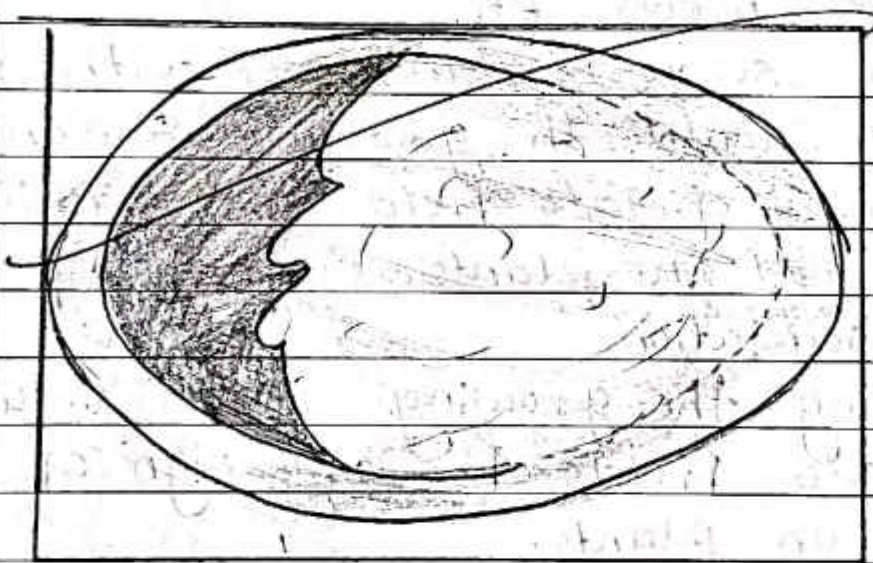


Fig 5.1 Bacterial ring rot in potato.

★ Management of ring rot :-

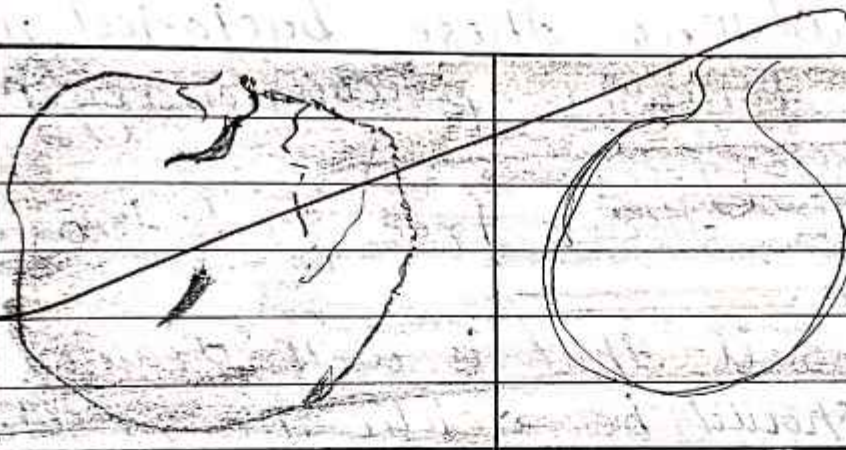
This disease can be managed by observing following sanitation measures.

⇒ use only those potato tuber seeds that are certified to be free from ring rot.



- 2) All leftovers from previous season including potato tubers and their vines old bags, boxes etc. should be removed from seed storage areas and properly discarded or burned. Storage room walls, floors should be ~~ster~~ thoroughly cleaned and sanitized.
- 3) Sanitize all surfaces with which the seed potatoes have come in contact. This many include various tools, container, knives, cutters, potato platters, truck beds etc.
- 4) Those seeds contaminated with ring-bots should ~~th~~ growing season volunteer potato fields for any sign of ring-bot on plants. never be used for ~~plant~~ plantation.
- 5) During the growing season volunteer potato fields for any sign of ring-bot on plants.
- 6) Sanitation of seed potato form is also very necessary. In case of any doubt immediate and thorough clean-up should be done. Infected tubers should be ~~remo~~ removed and disposed of to reduce the risk to next season's crop.

- \* **Soft rot** :- This is also a kind of bacterial spoilage of fleshy vegetables like potato, tomato, carrot etc. Soft rot results in destruction of plant tissue texture. This is due to secretion of enzymes by bacteria that damage plant cell walls. Therefore the plant tissue becomes soft and watery. Hence the name causative bacteria is *Ralstonia solanacearum* and *Pectobacterium carotovorum*.



- \* **SCAB** :- Scab is also a bacterial type of vegetable spoilage in which corky raised lesions are developed on the surface of tubers. Potato, carrots, beets, radish etc. can be infested by scab. Scab being superficial can be removed without affecting the eating quality of tubers.

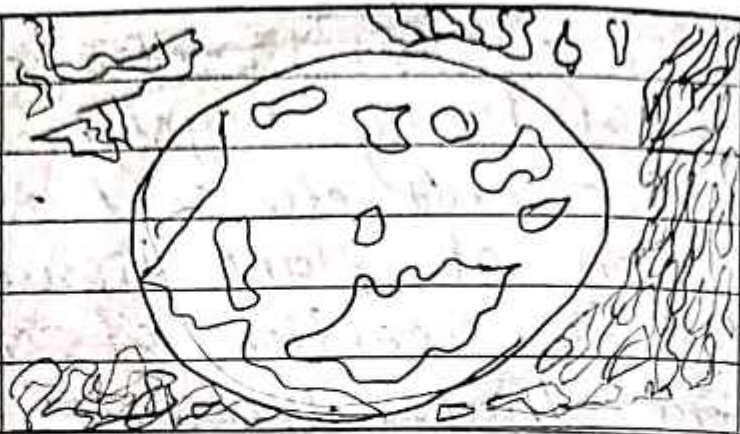


Fig: 5.3 Bacterial Scab developed on the surface of tubers.

\* ~~Manag~~ Management of soft rot and scab for controlling these bacterial infection of tuber following precautionary measures are necessary.

- 1) Always use disease free seed tubers for plantation.
- 2) Plant in soil that is well drained
- 3) Soil pH should be acidic i.e. 5.5 to 6.0.
- 4) prior to plantation sanitize the seed tubers in a paper bag with two tablets of elemental sulphur to avoid infection
- 5) keep plants well watered.

\* ~~Black rot~~ Black rot

This disease is caused by bacteria *Xanthomonas campestris* which commonly affects cruciferous crops worldwide and results into higher loss of yield and quality. Main crops that are affected

by this infection include cabbage, cauliflower, broccoli, radish and turnip.

\* Management of black rot:-

Management of bacterial black rot of vegetables can be done by observing following practices.

- 1) select only those seeds that are certified as disease free
- 2) Before planting treat the seeds with hot water so as to remove bacteria present
- 3) soil in the seedbeds should be steam sterilized or fumigated.
- 4) Do not plant in that area which could receive the water or soil from previous crops.
- 5) keep sufficient space between the plants to reduce leaf wetness period and infection
- 6) Monitor, transplant and remove the infected seedlings and immediately destroy them.
- 7) Avoid working in wet fields.
- 8) Avoid overhead irrigation of seedlings
- 9) Do not trim the seedlings to avoid spread of bacteria by the tools used.
- 10) After harvesting immediately subject the crop residue for decomposition.
- 11) Do not deposit call piles of crop near fields or storage area.

2. Describe fungal spoilage of vegetables and fruits ?

1) Neck rot :- This fungal infection is caused by *Botrytis allii* disease develops especially during storage of onions and related bulb like garlic resulting in severe loss. It is called as Neck rot because the fungal infect the neck of onion first and later the remaining tissue. This result into formation of soft and spongy tissue of onion bulb.

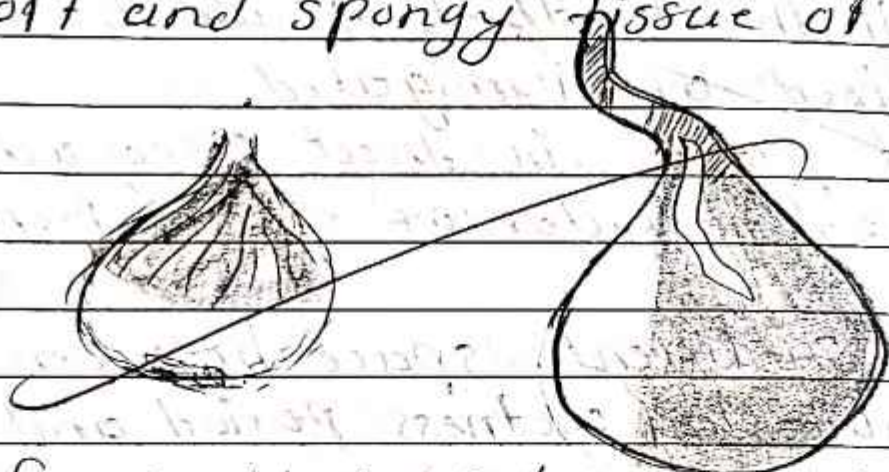


fig- 5.5 Neck rot result into formation of soft and spongy tissue of onion bulb.

\*

\*

Management of neck rot :-  
Because the infection approaches during storage period and not during cultivation its prevention totally depends on careful harvest and storage of onion.

1) use only that variety of onion that is well adapted to the region.

- 2) Keep proper spacing between the plants to get free air movement through them.
- 3) During harvest period avoid injury to onion neck.
- 4) If possible apply fungicide before harvest to reduce infection chances.
- 5) Immediately destroy onion cut and other debris that may serve as source of infection.
- 6) Do not store damaged and infected bulbs.
- 7) During storage contact with moisture must be avoided.

★

### Black rot

This is the fungal infection of bulbs especially onion and garlic. Causative organism is *Aspergillus niger* commonly called as black mold. Ground nut and peanuts are also target crops of this disease. Tremendous amount of black spores can be easily seen on the affected parts of these crops.

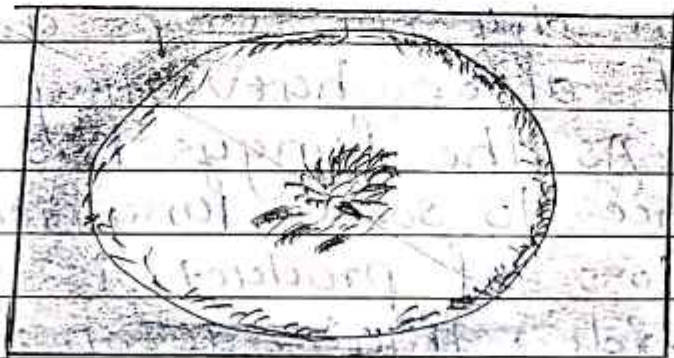


Fig. 5.6. Black rot on bulbs of onion caused due to black mold *Aspergillus niger*.

\* Management of black rot :-

This black fungus can be controlled by observing following measures

- 1) As far as possible green manures should be used during cultivation
- 2) Cultivation in suppressive soil i.e. soil with higher microbial population is found to be beneficial as the fungus can't compete and is inhibited
- 3) Plantation of such plant like marigold in fields is found to produce certain chemicals like  $\alpha$ -thienyl that are toxic for fungus.
- 4) Chemical control method is not found to be effective therefore should be avoided

\* Dry rot :-

This is very common fungal infection of potato. It is caused by *Fusarium solanum* and *Fusarium sambucinum* and is also called as *Fusarium dry rot*. Crops are particularly affected after harvesting and during storage. As the fungus has acquired resistance to some fungicides there is great loss of product is reported world wide. Thiabendazole (TBZ) is however found to be somewhat

effective in controlling dry rot during storage period. Infection dry rot is during storage characterized by presence of internal light to dark black or brown rot of potato tubers and usually it is dry. Infection occurs near the cut or injury to tuber from where the fungus enters and effect the inner tissues.

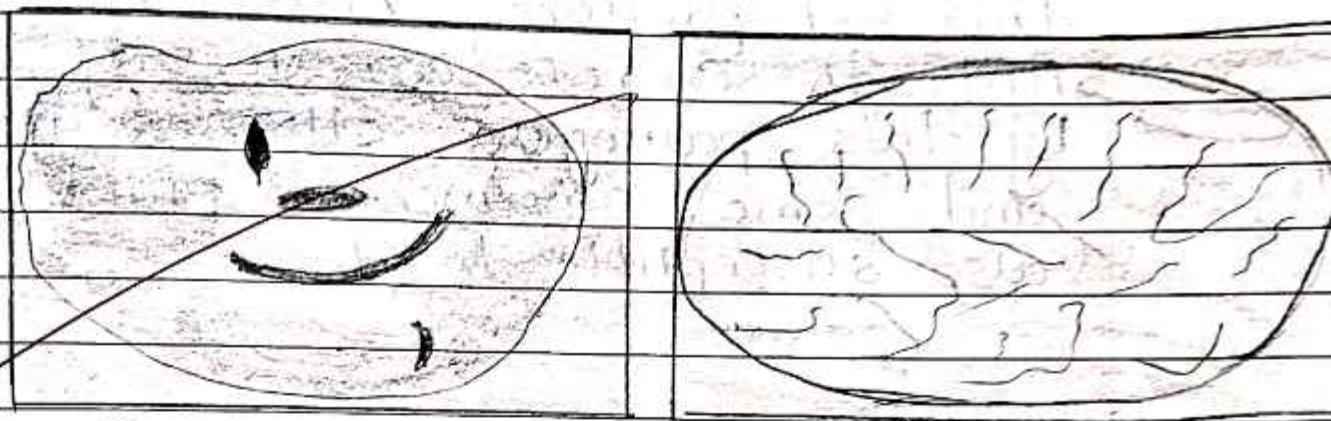


Fig 5.7. Dry rot fungal infection of potato

- ★ Management of dry rot :-
- 1) Select only those seeds that are certified to be dry rot free.
  - 2) Before sowing warm the seed tubers to promote rapid growth.
  - 3) Before receiving the seeds sanitize the seed storage area properly.
  - 4) Protect the seeds from wind and sunlight because dehydration weakens them.
  - 5) If possible treat the seeds with proper fungicide.



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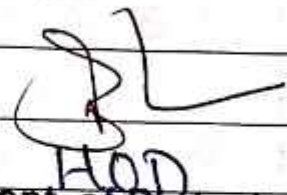
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Subject Teacher



Q.1) Describe in details mycobacterium tuberculosis?

⇒ Introduction :-

- Mycobacteria are slender that sometimes show branching.

- Filamentous forms branching filamentous forms resembling fungal mycelium.

- Hence the name 'mycobacteria' meaning fungus-like bacteria. mycobacteria are

therefore called acid fast bacilli or AFB.

- they are aerobic, nonmotile, noncapsulated and nonsporing.

- Growth is generally slow.

- the genus includes obligate parasite.

opportunistic pathogen and saprophytes

- the first member of this genus to be

identified was the lepra bacillus

discovered by Hansen in 1868.

- Koch (1882) isolated the mammalian

tubercule bacillus.

- these in human was subsequently

shown to be caused by two type

of the bacillus the human and bovine

type designed mycobacterium Tuberculosis

and m. bovis respectively.

### Definition :-

Tuberculosis is (TB) a serious illness that mainly affects the lungs, the germ that cause tuberculosis can spread when a person with illness cough, sneezes or sings.

### \* Morphology of Tuberculosis :-

- M. Tuberculosis is straight or slightly curved rod it is about  $3 \mu\text{m} \times 0.3 \mu\text{m}$ . occurring singly in pair or as small clumps.
- size is depends on condition of growth and long filamentous, club shaped and branching forms may be sometimes seen.
- M. bovis is usually 'straighter', shorter and stouter.
- Tuberculi bacilli have been described as gram positive bacteria.
- the cell wall contain a lipid; protein polysaccharide; they are very antigenic for human.
- these also Z-forms are also seen.

\* Cultural characteristics of Tuberculosis:

- the bacilli grow slowly the generation time in vitro being 14-15 hours.
- colonies appear in about two weeks and many sometimes take up to eight weeks.
- optimum temperature is  $37^{\circ}\text{C}$  growth does not occur below  $25^{\circ}\text{C}$  or above  $40^{\circ}\text{C}$ .
- optimum pH is 6.4 in tuberculosis is an obligate aerobic, while bovis is microaerophilic on primary isolation.
- the addition of glycerol improve the growth of tuberculosis.
- on solid media M. Tuberculosis form dry media M. Tuberculosis raised irregular colonies with winkle surface.
- they are creamy white, becoming yellowish or buff coloured on further incubation.
- M. bovis colonies in comparison are flat smooth, moist white & break up easily when touched.

## Resistance :-

Mycobacteria are not specially heat resistant being killed at  $60^{\circ}\text{C}$  in 15-20 minutes.

Cultured may be killed by exposure to direct sunlight for two hours, but bacilli in sputum may be alive for 20-30 minutes.

Cultures remain viable at room temperature for 6-8 months.

and may be stored for up to two years at  $20^{\circ}\text{C}$ .

Tubercle bacilli are relatively resistant to chemical disinfectants surviving exposure to 5% phenol, 15% sulphuric acid, 3% nitric acid, 5% oxalic acid, and 4% sodium hydroxide.

Ethanol is a suitable disinfectant for skin, gloves and clinical thermometers.

## \* Biochemical Reaction :-

- Several biochemical test have been described for the identification of mycobacterial species.

① Niacin test :- Human tubercle bacilli form niacin when grown on egg medium.

- when, 10% cyanogen bromide & 4% aniline in 96% ethanol, are added to a suspension of the culture.

② AxyI sulphatase test :- This test is positive only with atypical mycobacteria.

- the bacilli are grown in medium containing 0.001 M tetrapotassium phenolphthalein disulphate.

③ Neutral red test :- virulent strains of tubercle bacilli are able to bind neutral red in alkaline buffer sol<sup>n</sup>.

④ Catalase - Peroxidase tests :-

- these help in differentiating tubercle bacilli from atypical bacteria and provide an indication

of the strain to isoniazid.

- most a typical mycobacteria strains are strongly catalase positive test.

### ⑤ Amidase tests :-

- The ability to split amides has been used to differentiate mycobacteria.

### ⑥ Nitrate Reduction Test :-

- this is positive with *m. tuberculosis* and negative with *m. bovis*.

### \* Pathogenesis :-

- the source of infection is usually an open case of pulmonary tuberculosis. it is estimated that an open case of tuberculosis in India may infect an average some 25 contact before death or cure.
- other forms of tuberculosis

are of much less importance in public health.

- the mode of infection is by direct inhalation of aerosolised bacilli contained in droplet nuclei of expectorated sputum coughing, sneezing and speaking release numerous droplets as many as 3000 infectious nuclei per cough.

### Pulmonary Tuberculosis :-

#### 1) Primary Tuberculosis :-

primary tuberculosis occurs when the immune system is unable to defend against the mycobacterium tuberculosis bacterium (MTB) infection.

#### 2) Secondary Pulmonary Tuberculosis :-

secondary tuberculosis usually occurs because of the reactivation of latent tuberculosis infection.



## \* Laboratory Diagnosis:

- Sample collection
  - sputum
  - Blood
  - urine
  - Nasal Swab &
  - CSF

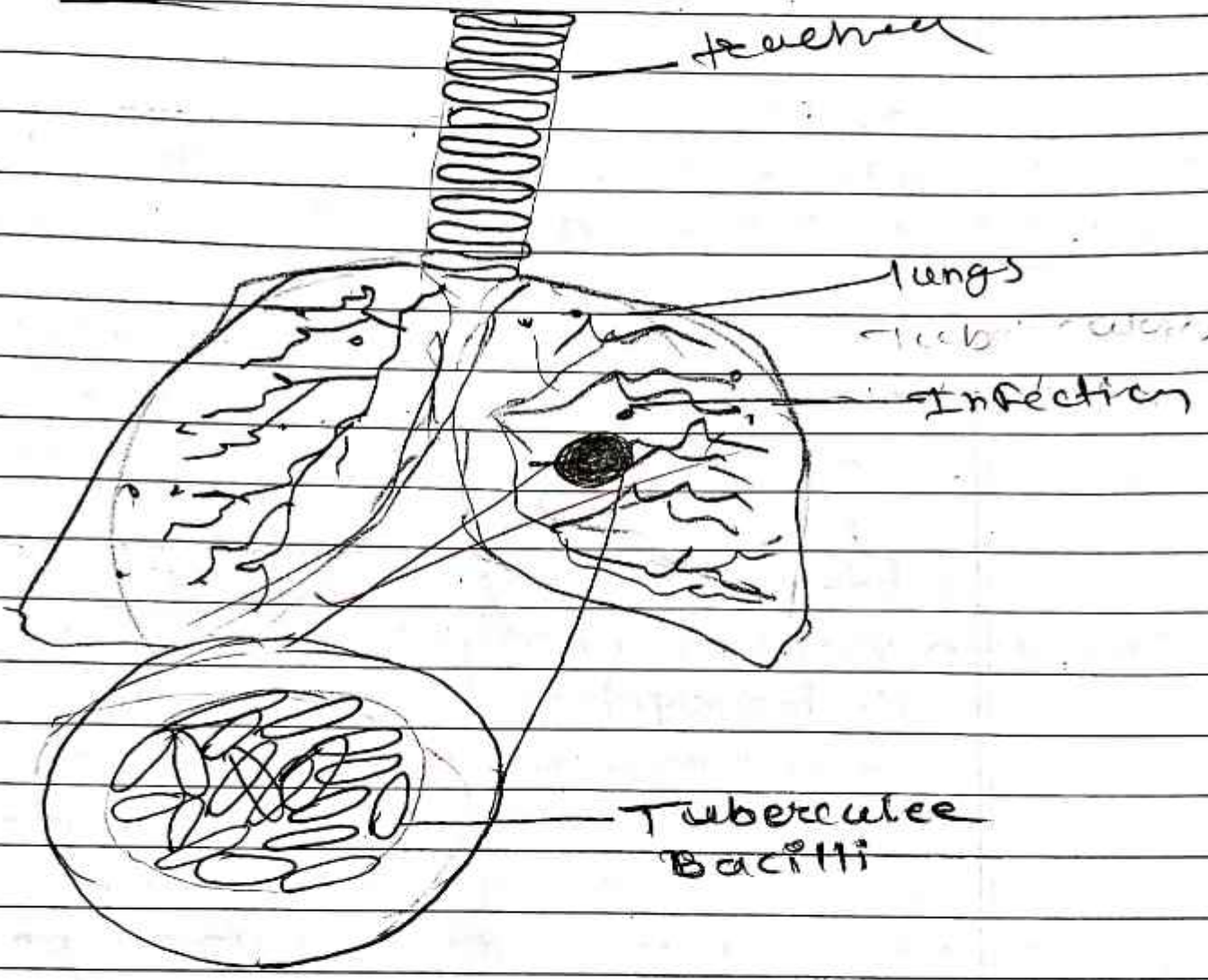
may be established by demonstration of the bacilli in the lesion, by microscopy → Isolating in culture or by transforming the infection to experimental animal. Demonstration of hypersensitivity to tuberculosis may be helpful in some cases molecular diagnostic have also been introduced

## Severe Symptoms:

- Persistent cough
- chest pain
- coughing with bloody sputum
- shortness of breath
- urine decolorization
- cloudy & reddish urine

- Fever with chills.
- Fatigue.

Fig:-



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Department of Biotechnology

Academic Session : 2022 - 23

Name : Jamiksha M shende

class : Bsc 1st sem (Biotechnology)

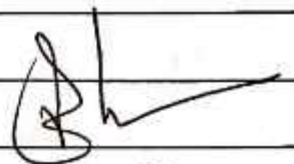
subject : Microbiology (assignment)

Roll No : 88

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HOD

Dept. of Biotechnology  
Indraprastha New Arts Commerce  
and Science College, Wardha

D.D. Dambhore  
Subject Teacher

# Assignment

Questions paper - 1 (2018)

(History and Microbial Morphology)

Que 1] Explain experiments of Louis Pasteur and John Tyndall in support of biogenesis. (10m)

Ans :- Louis Pasteur Experiment on biogenesis :-

- Despite above experiments the French naturalist Felix Pouchet claimed that microbial growth could occur in sterile nutrient broth without entry of contaminated air.

- This claim provoked Pasteur to disprove spontaneous generation once and for all.

- Pasteur first filtered air through cotton and found that objects resembling plant spores had been trapped.

- If a piece of the cotton was placed in sterile medium after air had been filtered through it, microbial growth appeared.

- Next he placed nutrient broth (boil meat soup) in flask, heated its neck in a flame, and drew it out into an S-shaped curve (swan neck flask or Pasteur flask), while keeping the end of the neck open to the atmosphere.

- Pasteur then sterilized the nutrient broth by keeping flask in boiling water bath for a few minutes (Fig. 11.5).

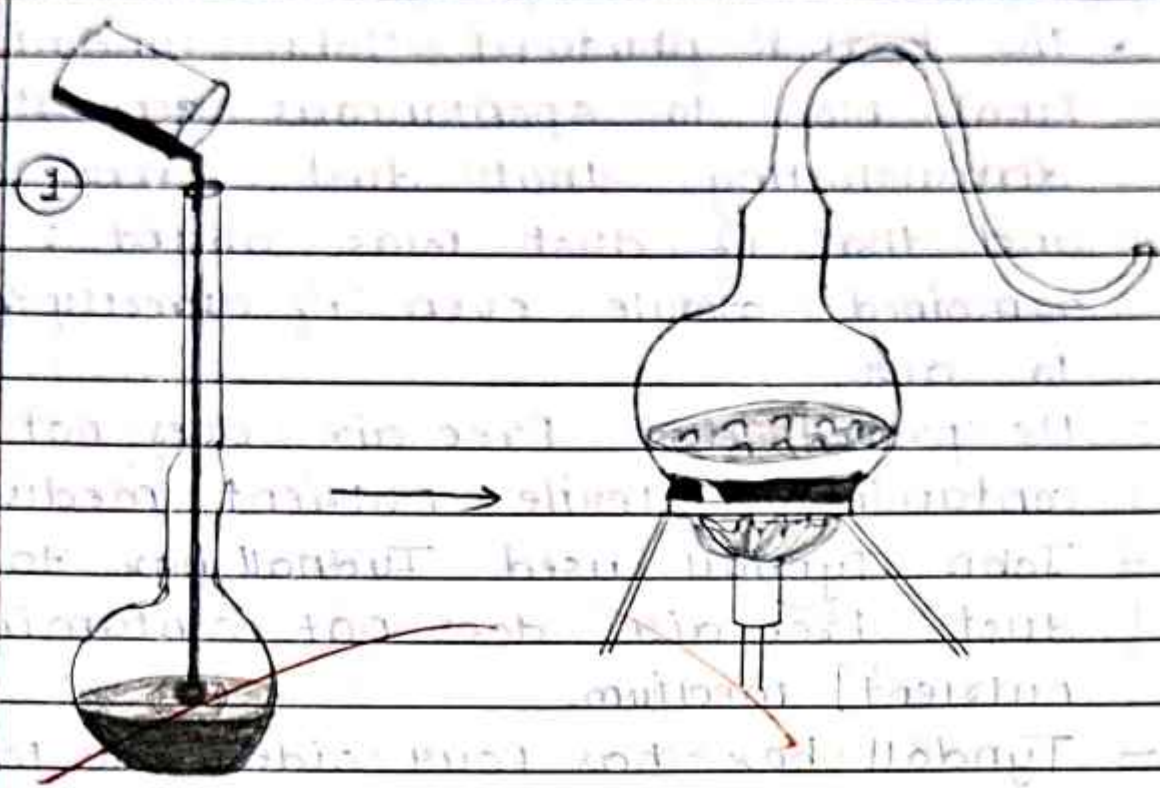
- He then allowed flask to cool.
- He reported no growth on incubation in the content of the flask even though exposed to the air.

- When he broke the top of the flask, microbial growth occurred in nutrient broth on incubation.

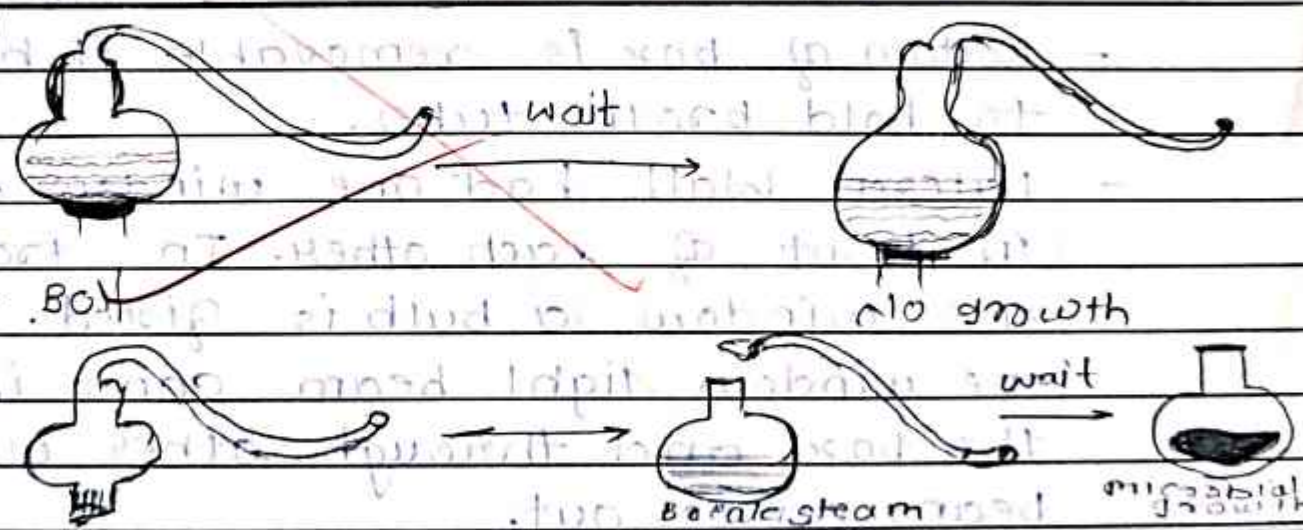
- He concluded that absence of microbial growth in broth was due to fact that when air travels through neck of flask it gets sterilized and sterile air enters in broth of flask. Sterilization of air before its entry in flask is due to fact that atmospheric air travel through a neck of flask which is long and with bends, so microbes of air get settled in bends of neck of flask.

pasteur proved microbial growth could occur in sterile nutrient broth with entry of contaminated air.

~~Next he placed flask in a nutrient broth and it out into an S-shaped curve for an hour flask or nutrient flask while keeping the neck of the neck open to the atmosphere. Pasteur then sterilized the nutrient broth by boiling flask in boiling water bath for 30 minutes.~~



Pasteur's swan neck flask experiment (1) pouring of nutrient broth, (2) heating after attachment of swan neck

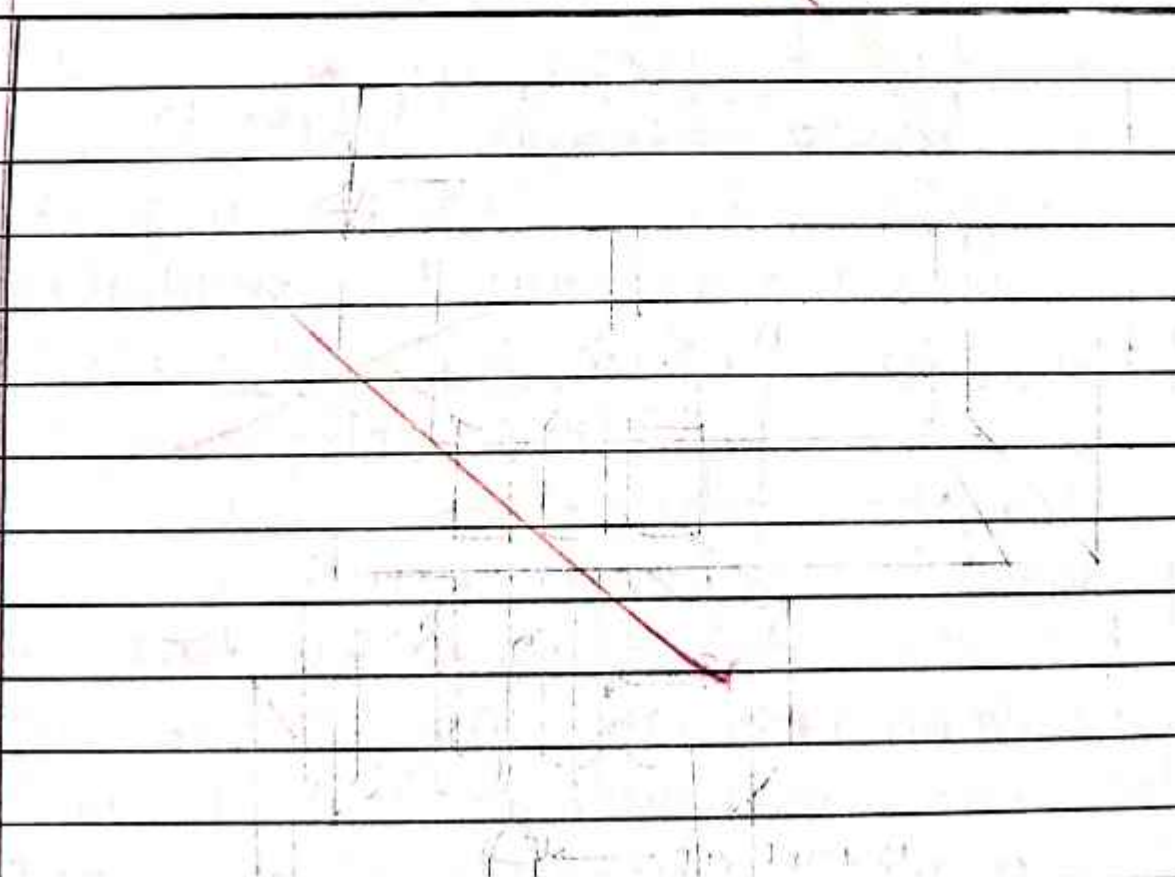


Boiled complete setup of pasteur's swan neck flask experiment.

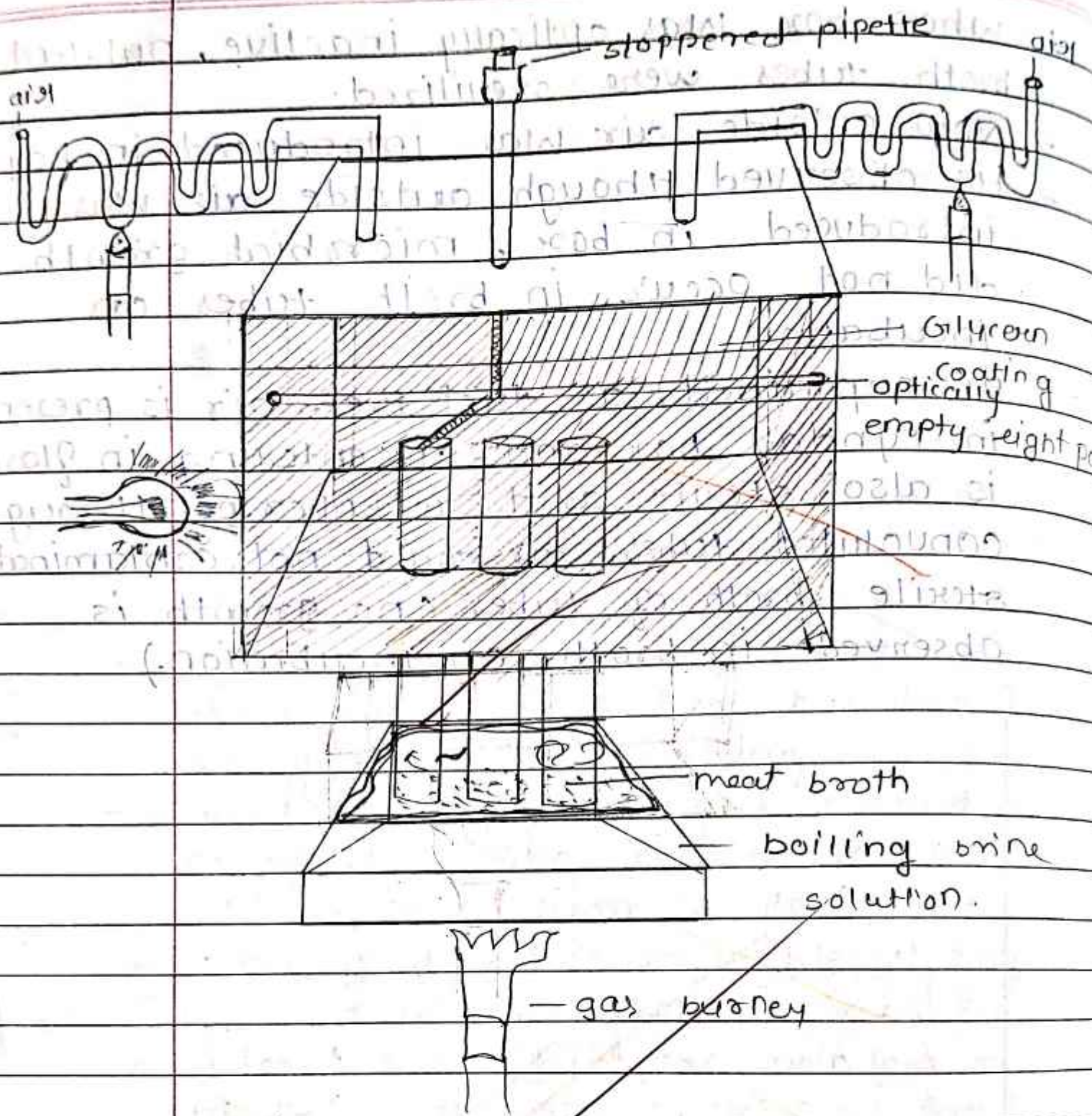
## \* John Tyndall Experiment on Biogenesis:

- The English physicist John Tyndall gave final blow to spontaneous generation by demonstrating that dust carry germs and that if dust was absent; broth remained sterile even if directly exposed to air.
- He proved dust free air does not contaminate sterile nutrient medium.
- John Tyndall used Tyndall box to prove dust free air does not contaminate sterile nutrient medium.
- Tyndall box has four sides, one top and one bottom. Top of box has two lateral and one central opening.
- Each lateral opening is connected to convoluted tube. central opening is to add nutrient broth to test tubes.
- Bottom of box is removable it has provision to hold broth tubes.
- Lateral wall had one window each in front of each other. In front of one window a bulb is fixed. Through one window light beam come inside the box and through other window light beam comes out.
- All side of box was coated with glycerine to trap dust particles of air present in box.

- When box was optically inactive, nutrient broth tubes were sterilized.
- Now outside air was introduced in box.
- He observed though outside air was introduced in box, microbial growth did not occur in broth tubes on incubation.
- He explained, as dust free air is present in Tyndall box and air entering in glass is also sterile as it is entering through constricted tubes, air could not contaminate sterile broth of tubes (no growth is observed in broth on incubation.)







Experimental setup of Tyndall box designed by John Tyndall.

- Ques 2] Write short notes:
- structure of 70s ribosome
  - R-plasmid
  - structure of mesosomes
  - size, shape and arrangement of bacteria.

Ans:-

A] structure of 70s ribosome :- In prokaryotes 70s ribosome are present. 70s ribosome consist of smaller 30s and larger 50s subunits.

- 30s subunit has 16S rRNA and 23 protein molecules.
- 50s subunit has 23S rRNA and 31 protein molecules.
- The S is in 70s and similar values stands for Svedberg unit.
- \* Two models have been proposed to explain structure of ribosome (70s)

A] Stoffley's and Wittmann's model (symmetrical)

- According to this model, 30s unit appears like telephone receiver or (1st embryonic cleavage) (2nd embryonic cleavage)
- It has transversely cleft which divide 30s subunit into smaller head and large body.
- 50s subunit appears bilaterally symmetrical and shows three protuberances arising from rounded base.

- The 50s subunit has been compared to an arm chair, with rounded base forming vacuolated seat. The central protuberance is the back and lateral protuberance are the arms.
- According to this model, to form 70s ribosome, the frontal face of 30s subunit with its hollow faces the vault seat of 50s subunit.
- The long axis of the 30s subunit is oriented transversely.

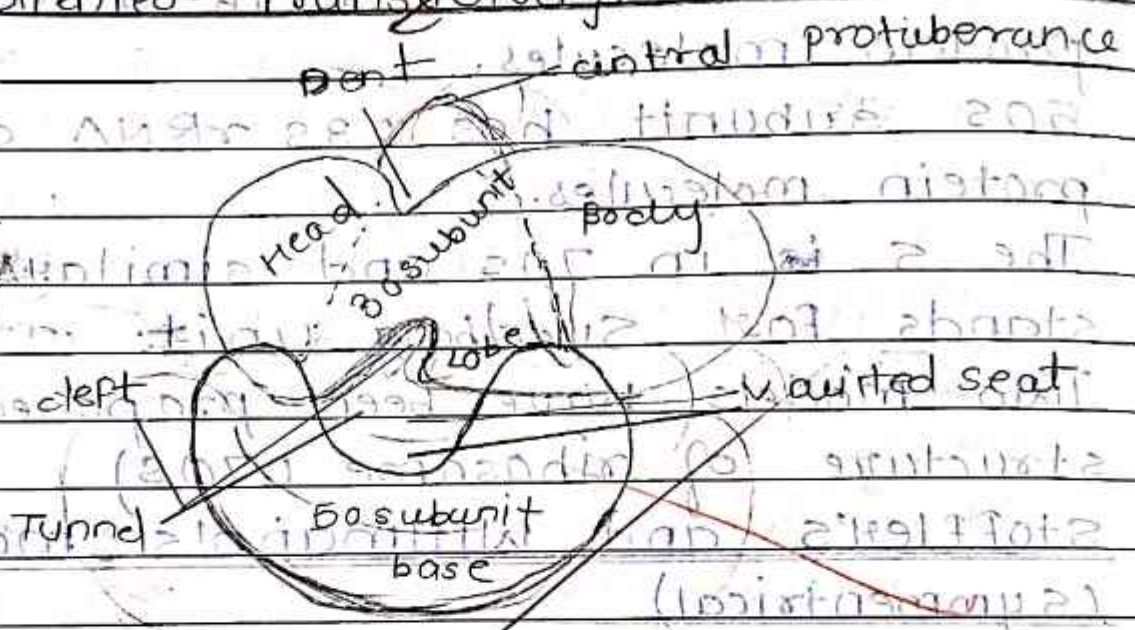


Figure: Ribosome (E. coli) Stoffel's and Wittmann's model

B) Lakes Model (Asymmetrical model)

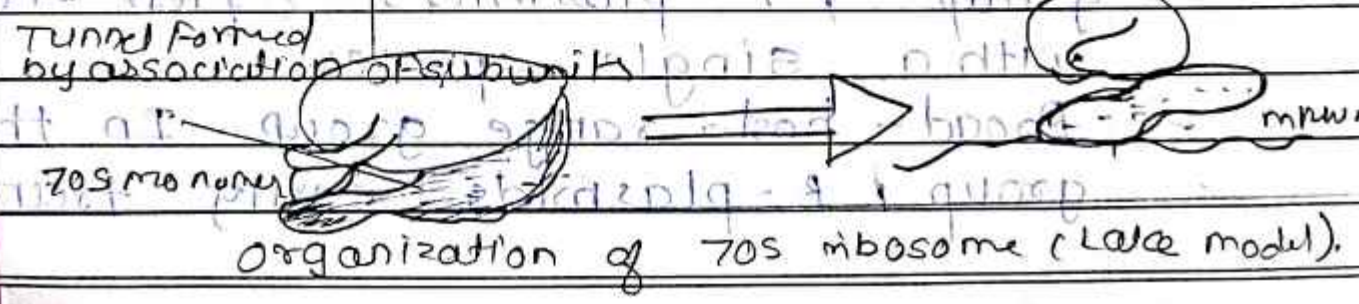
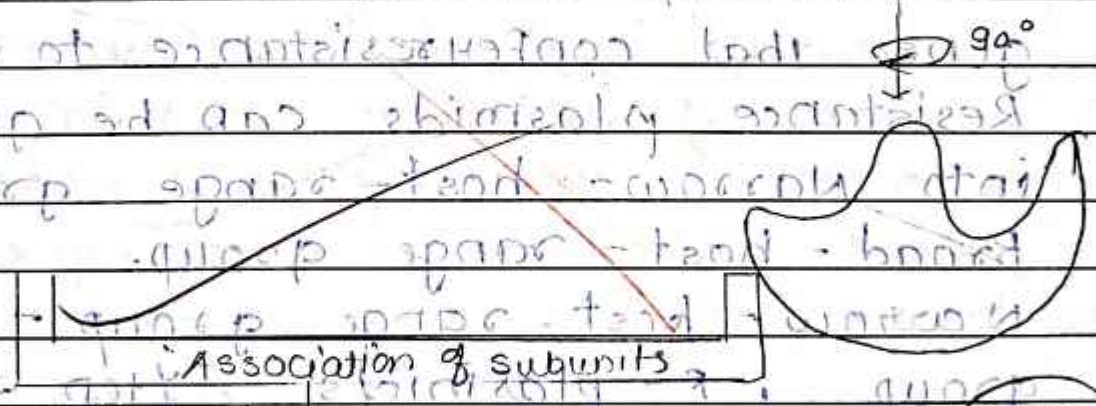
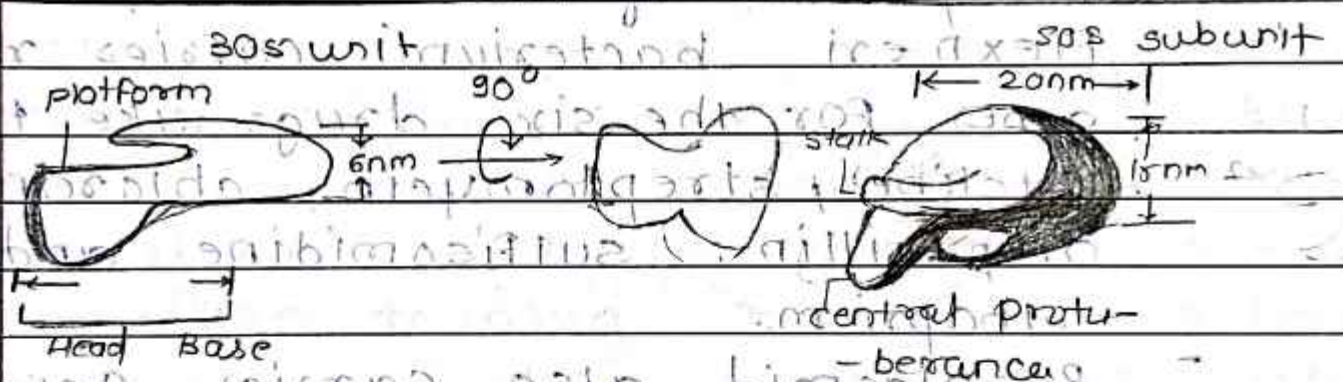
- According to this model, 30s subunit is asymmetrical. Extending lid from lower two-third is a region called platform.

- This cleft is important functional region.

i) - According to this model, in forming 70S ribosome, the 30S subunit is asymmetrically positioned on the large subunit.

- The platform of small subunit faces the large subunit.

ii) - The partition between the head of 30S subunit is aligned with the notch of large subunit.



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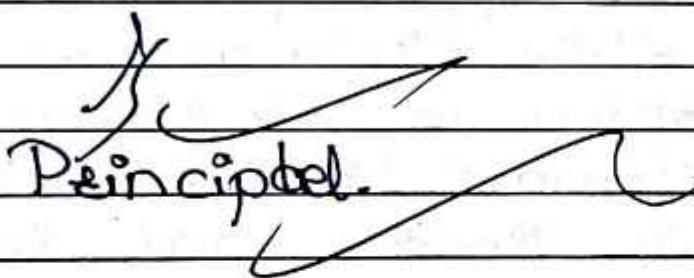
Department of Biotechnology.

Academic session - 2022-23


Subject - Microbiology.  
(Paper 1)

Name :- Santosh C. Waghmare.

Class :- BSc 1<sup>st</sup> year.

  
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Dept. of Biotechnology,  
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and Science College, Wardha

Subject Teacher.  
R. S. Kulkarni

Q.1 Discuss general characteristics of mycoplasma?

Ans:- Nocard and Roux (1898) first isolated a filterable and highly pleomorphic microorganisms from cattle suffering from pleuropneumonia. A number of closely related organisms were isolated from animals, man, soil and sewage.

As these organisms are responsible for causing pleuropneumonia in cattle, they were called "pleuropneumonia like organism (pplo)" for many years. These organisms are the smallest known free-living organisms. Because of the absence of cell walls, they do not stain with gram stain. and they are pleomorphic and plastic than eubacteria. with Giemsa stain, they appear as tiny pleomorphic cocci, short rods, short spirals and sometimes as hollow rings forms. Their diameter ranges from  $0.15 \mu$  to  $0.30 \mu$ .

mycoplasma are saprophytes, commensals or parasites. many pathogens to plants, animals or insects.

• Classification :-

In 1996, International society of Nomenclature of Bacteria has

separated mycoplasma from the bacteria and placed it in class mollicutes.

Kingdom : Bacteria.

Division : Firmicutes.

Class : Mollicutes.

Order : Mycoplasmales.

Family : Mycoplasmataceae.

Genus : Mycoplasma.

• Lack of cell wall :-

The most important property of the bacteria in the genus mycoplasma is the lack of cell wall as they cannot synthesize peptidoglycan. Cell walls in bacteria help to give the cell structure. Mycoplasma bacteria survive against certain antibiotics (ex - penicillin) as many antibiotics target the bacterial cell wall to kill infection bacteria. Mycoplasmas are also more susceptible to lysis or the explosion of the cell, by osmotic imbalance due to lack of cell wall. (In an osmotic imbalance a higher solute concentration is either the outside or inside the cell causes water to flow into or out of the cell, resulting in deformation and

the possible destruction of the cell). But mycoplasmas are more stable than bacterial protoplasts and presence of sterols in their membrane may be responsible for this stabilizing effect.

• Cell morphology :-

At about 100 to 200 micrometers in diameter, mycoplasma cells are some of the smallest bacteria ever discovered. Such a small size presents problems in filtration sterilization techniques. Mycoplasma requires an outside source of cholesterol, usually obtained from the food humans digest, for cell biosynthesis. Cholesterol in the plasma membrane has special importance in bacteria that lack a cell wall, to help maintain cell rigidity.

• Cultural characteristics :-

The mycoplasmas on their host for diverse nutritional requirements and thus, require complex for media for in vitro cultivation. A small number of mycoplasma existing in nature have been so far cultivated in laboratory. The cultivated in



mycoplasmas, viz, mycoplasma pneumoniae and M. genitalium grow very slowly and poorly in vitro. Serum (5-20%), heart infusion, peptone, yeast extract, salts, glucose or aeginin are added to media for mycoplasma culture. Serum provides cholesterol and fatty acid for membrane synthesis. penicillin or thallium acetate or both is added to the medium to prevent contamination of fast growing bacteria. when mycoplasma grown on solid medium mycoplasma, they form colonies with "fried egg" appearance because they grow at the center while spreading outwards at the colony edges.

- Internal structure :-  
— The internal structure of mycoplasma are similar to typical prokaryotic cell and closely resemble with bacteria.  
— The nuclear structure is in the form of DNA, which is smallest found in prokaryotes, about  $5$  to  $10 \times 10^8$  dalton but has sufficient genetic information necessary for independent existence of the cell. Genome contains about 482 genes. The DNA is a double stranded

# Assignment:

Date			
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Department of Biotechnology

Academic session  $\Rightarrow$  2022-23

Subject  $\Rightarrow$  Biomolecules

Name  $\Rightarrow$  Tejas Tekam

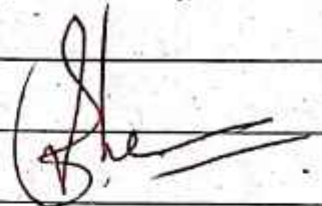
class  $\Rightarrow$  Misc 1<sup>st</sup> Sem

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D. D. Dambhase

Subject Teacher

## Paper - I

Q] Describe in detail acquired Immunity?

→ Acquired Immunity:-

Acquired immunity is also known as adaptive immunity. It is acquired during life span. It is not due to genetic makeup. It is not due to birth right. It is always considered at individual level. It is never transmitted from one generation to other but ends with the life of that individual. Here prior contact with the Antigen is required. It is comparatively short lived. It is applicable only after the age of 3 months. It is highly specific.

Acquired Immunity is two types:-

- (A) Active acquired immunity.
- (B) Passive acquired immunity.

(A) Active acquired Immunity:-

In this type of immunity the antibodies are synthesized by immune apparatus of the host.

It is developed as a result of antigenic stimulus. Antigen after entering inside the host undergoes processing and stimulates the immune system to produce antibodies. Latent period is observed.

It is the period between entry of antigen and synthesis of antibodies. Negative phase is always observed.

It is due to combination of antigen with naturally present non specific antibody in the host.

It is long lived. The duration of protection varies from disease to disease. Immunological memory present. It is responsible for quick synthesis of antibodies after contact with same antigen.

Booster doses are required [subsequent dose of same vaccine].

It is not applicable to immunodeficient host. It is always used as prophylactic [preventive] measure. It cannot be used for immunosuppression.

Active acquired immunity is further

classified into two groups as under:

- (a) Natural active acquired immunity.
- (b) Artificial active acquired immunity.

(a) Natural active acquired immunity  
This type of immunity is acquired during the life span of an individual. The immune apparatus actively participates in the synthesis of antibodies. The antigen naturally enters inside the host hence the name natural active acquired immunity. It is explained on basis of following examples:-

- It is observed that after recovery from infectious diseases a person develops immunity. During the course of infection pathogens come in contact with immune apparatus which results in the synthesis of antibodies. These antibodies give protection after recovery for a particular time period.
- It is also observed that when a

person is exposed to a particular infection repeatedly in subclinical doses, the natural active immunity is developed. subclinical dose is not adequate to produce infection but act as antigen and stimulate the production of antibodies. These antibodies protect the host against the same pathogen for a specific time period.

In case of few viral diseases like small pox and measles. this type of immunity may be life long. In some cases it is very short lived in influenza and common cold. In case of bacterial infections immunity is short lived as compared to viral infections.

### ⑥ Artificial active acquired Immunity

This type of immunity is acquired during life span of individual immune apparatus

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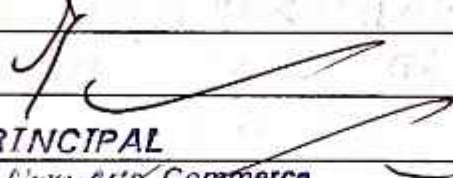
Academic Session : 2022 - 23  
Name : Komal Ankushrao Dabne

College : New arts, Commerce and  
Science college Wardha

class : Bsc 1st Sem (Biotech)

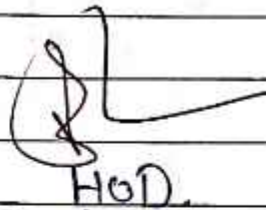
Subject : Microbiology

Principal :



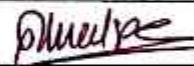
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Subject Teacher

Q. 1 Explain the experiments in support in theory of biogenesis?

Ans.: 1) Francesco Redi:

Francesco Redi put meat in three jars, one open, one closed with gauze and the third closed with paper. Flies laid their eggs on the meat in the open jar. The eggs on the meat in the open jar. The eggs hatched to maggots, then young flies. In jar covered with gauze, flies were attracted by smell of putrefying meat but they were unable enter the jar hence laid eggs on net. No eggs were laid on the paper or the meat of the third jar. So it remained free of maggots. With this experiment, Redi proved scientifically that life, the maggots comes from life, the flies, and not from non-life, the dead meat. But argument was made by other scientists that maggots are microscopic organisms, therefore they may need parents, but micro



organism are too minutes, therefore, they may not need parents. He was unable to answer the argument made by other scientists.

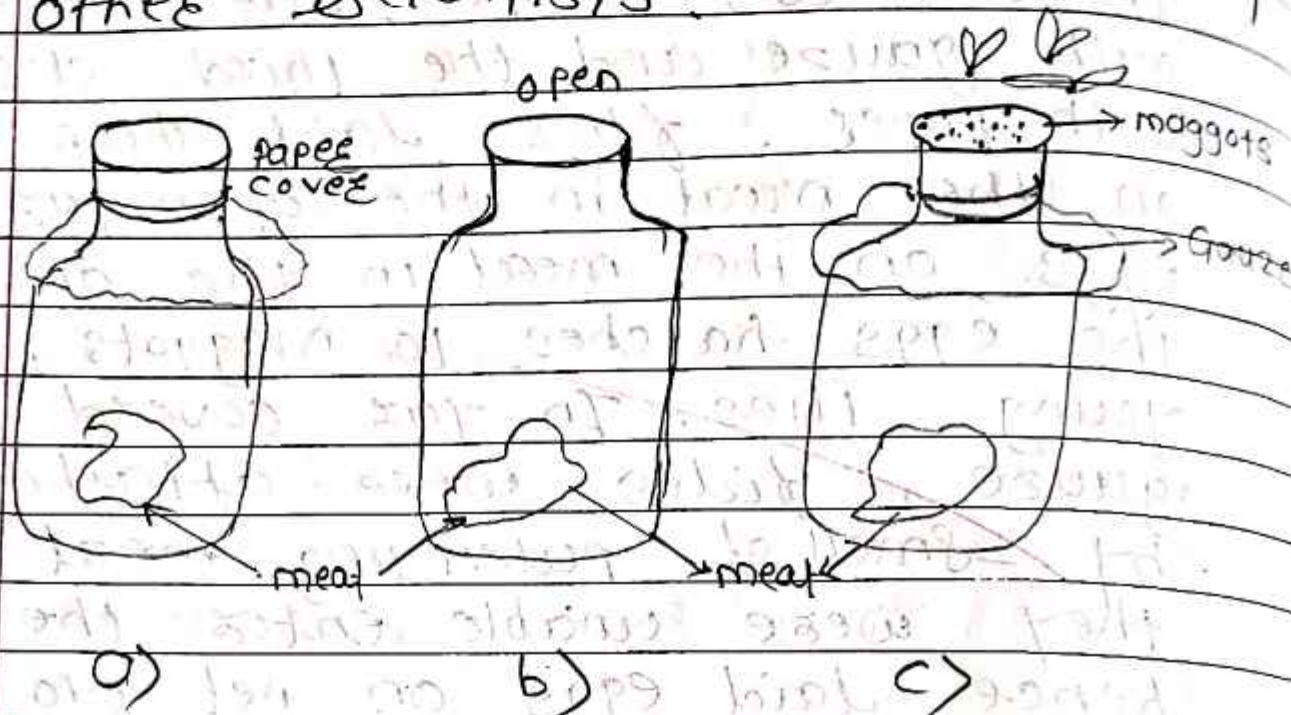


fig :- Experiment by Francisco Redi

- a) No eggs were laid on the paper or the meat of the third jar.
- b) Flies laid their eggs on the meat in the open jar.
- c) A jar covered with gauze flies were attracted and

did eggs on net.

## 2) La Zaro Spallanzani's

Spallanzani an Italian priest.

He boiled water & seeds for an hour in sealed flask. He observed

no microbial growth in flask on incubation from this observation

he concluded that heat destroyed microbes of water, seeds & flask, including heat resistant forms of microbes. And as flask

was sealed and air was prevented to enter in flask. no microbial growth was observed in flask & disproved the theory of spontaneous generation. He proposed the air

carried germs to the culture medium, but also commented that the external air might be required for growth of animals already in the medium.

He pointed out that microbial growth in boiled soup in Needham's experiment was originated from heat resistant microbes which are not

destroyed by heat. But John Needham was not satisfied by answer of Spallanzani growth. According to John Needham microbial growth was not observed in this experiment because heating the air in sealed flask destroyed its ability to support life.

### 3) Schulz and Theodose Schwann

Theodose Schwann, Schulz, George Feindlich Schödele and Theodose van Dusch attempted to counter argument made by John Needham that heating the air in sealed flask destroyed its ability to support life.

Theodose Schwann sterilized nutrient broth in flask and passed air in sterile nutrient broth. Schulz and Schwann reported no growth in flasks. They explained absence of microbial growth in experiment is ~~both~~ because sterile air

## Assignment.

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Department of Biotechnology

Academic Session - 2022 - 23


Sub - Biomolecules.

Class - M.Sc 1st sem.

Name - Paiti, B. Thool

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P.P. Damkhore  
Subject Teacher

Que.1. Explain in detail chemistry and classification of carbohydrate

Ans  $\Rightarrow$

- ① Monosaccharides or Monosaccharoses.
- ② Oligosaccharides or Oligosaccharoses
- ③ Polysaccharides or Polysaccharoses.

\* ① Monosaccharides  $\Rightarrow$

① The monosaccharides, often called simple sugars, are compounds which possess a free aldehyde ( $-CHO$ ) or ketone ( $=CO$ ) group and 2 or more hydroxyl ( $-OH$ ) groups.

② They are, in fact the simplest sugars and cannot be hydrolyzed into smaller units.

③ Their general formula is  $C_n(H_2O)_n$  or  $C_nH_{2n}O_n$ .

④ The monosaccharides may be subdivided into trioses, tetroses, pentoses, hexoses, heptoses, etc. depending upon the no. of carbon atoms they possess; and as aldoses or ketoses, depending upon whether they contain aldehyde or ketone group.

⑤ some important examples are  $\Rightarrow$

name	Formula	Aldoses (Aldo sugars)	ketoses (keto sugars)
Trioses	$C_3H_6O_3$	Glycerose	Dihydroxyacetone

• Tetroses	$C_4H_8O_4$	Erythrose	Erythrulose
• Pentoses	$C_5H_{10}O_5$	Ribose	Ribulose
• Hexoses	$C_6H_{12}O_6$	Glucose	Fructose
• Heptoses	$C_7H_{14}O_7$	Glucoheptose	Sedoheptulose

(vi) Both these characters (i.e. the no. of carbon atoms and the nature of functional group present) may also be combined into one.

(vii) Thus, for example, glyceraldehyde (= glyceraldehyde) is an aldotriose; ribulose, a ketopentose and glucose, an aldohexose.

(viii) It is most noteworthy that, except fructose, ketoses are not as common as aldoses.

(ix) The most abundant monosaccharides in nature is the 6-carbon sugar, D-glucose.

\* ② Oligosaccharides ⇒

① It is also called as oligosaccharoses.

② These are compound sugars that yield 2 to 10 molecules of the same or diff. monosaccharides on hydrolysis.

③ Accordingly, an oligosaccharides yielding

2 molecules of monosaccharides, on hydrolysis is designated as disaccharides, and the one yielding 3 molecules of monosaccharides as a trisaccharides and so on.

(ii) The general formula of disaccharide is  $C_n(H_2O)_{n-1}$  and that of trisaccharides is  $C_n(H_2O)_{n-2}$  and so on.

(iii) A few examples are:-

● Disacca Disaccharides  $\Rightarrow$  sucrose, lactose, Maltose, cellobiose, Trehalose,

Gentiobiose, Melibiose.

● Trisaccharides  $\Rightarrow$  Rhamniose, Gentianose, Raffinose (= Melitose), Rabinose, melibiose.

● Tetrasaccharides  $\Rightarrow$  stachyose, Scorodose.

● Pentasaccharides  $\Rightarrow$  Verbascose.

(iv) The molecular composition of the 3 legume oligosaccharides (viz, raffinose, stachyose and verbacose) is shown below:-

- Galactose (1-6) - Glucose (1-2) - Fructose. <sup>raffinose</sup>

- Galactose (1-6) - Galactose (1-6) - Glucose (1-2)

- Fructose.

$\Rightarrow$  stachyose.

- Galactose (1-6) - Galactose (1-6) - Galactose (1-6)

- Glucose (1-2) - Fructose  $\Rightarrow$

Verbascose

★ (3) Polysaccharides  $\Rightarrow$

① it is also called Polysaccharoses

⑩ These are also compound sugars and yield more than 10 molecules of monosaccharides on hydrolysis.

⑪ These may be further classified depending on whether the monosaccharides molecules produced as a result of the hydrolysis of polysaccharides are of the same type (homosaccharides) or of diff. types (heteropolysaccharides).

⑫ Their general formula is  $C_xH_{10}O_5$ .

⑬ Some examples are :->

⊙ Homopolysaccharides → starch, Glycogen, Inulin, Cellulose, Pectin, Chitin.

⊙ Heteropolysaccharides → "Specific soluble sugar" of pneumococcus type III, Hyaluronic acid, Chondroitin.



# Assignment.

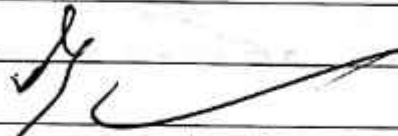
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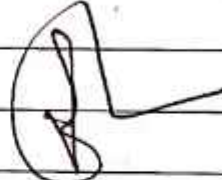
Department Of Biotechnology  
Academic Session :- 2022-2023  
Subject :- Environment Science  
and Resource.

Name :- Sangita Ashok Tekade

Class :- Msc 2nd Year.

  
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R-2, Rewarus  
Subject Teacher

Q.1 Explain soil pollution and its impact on environment.

- Soil - Soil the uppermost layers of the earth's crust is mixture of many solid, liquid and gaseous substance. having both living and non-living matter such as mineral particles, decaying organic matter, microbes along with water and air contained in pore space formation of soil is very slow process starting from weathering.

It may take 200 some thousand years to form an inch of soil depending upon the soil the local condition of area.

Composition of soil is listed below

Component in soil - Percent

- 1. Organic material matter - 45%
- 2. Organic matter - 05%
- 3. Soil water - 25%
- 4. Soil air - 25%

## Soil pollution :-

Soil pollution is the contamination of the soil with pollution, toxic chemical or any contaminant in such quantity that reduce soil quality and make it inhabitable to organisms such as insect and other microbes.

## Causes of soil pollution :-

① Industrial and mining activities - large no. of industries coming up since the dawn of industrial era without proper waste management systems are biggest contributors to soil pollution.

Also, since the amount of mining and manufacturing has been increasing and most industries are dependent on extracting minerals from the earth.

② Modern Agricultural practices - To increase the yield from limited land area, in order to meet the increasing demand of food for

ever increasing pollution, synthetic chemical pesticide and fertilizer are being used rampantly in last few decade leading to fertility of soil.

③ Lack of proper waste disposal; - modern lifestyle, urban as well as a rural produces huge amount of waste and lack of waste management procedure add to the problem of soil pollution.

④ Radioactive pollution :- radioactive substance resulting from explosions of nuclear testing laboratories, radioactive fallout and industrial giving rise to nuclear dust and radioactive waste penetrate the soil and accumulated giving rise to soil pollution.  
eg. Nuclear waste produce waste containing ruthenium - 106.

⑤ Biological agent :- soil get a large amount of human, animal and bird which constitute a major source of land pollution by biological agent.

## Effect of soil pollution :-

Impact of soil pollution are not confined to soil and it's biota but are carried over to every at the environment and effect every organisms from the earthworm to humans.

Human health :-  
Since we are dependent on the land for our food, pollution from the soil is transferred to us this manner.

## Air pollution

Toxic dust, rise from landfills along with for odour, pollute the air causes adverse effect to the people which live near them.

Effect on human health :-  
Considering the soil is the bases on we are able to sustain ourselves the contamination of its has

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Department of Biotechnology

Academic Session  $\Rightarrow$  2022-23


Subject  $\Rightarrow$  Environmental Science

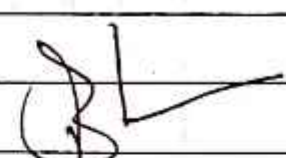
Assignment

Name  $\Rightarrow$  Pooja. A. Deghmukh

Class  $\Rightarrow$  MSc 1<sup>st</sup> Sem

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Subject Teacher

# Environmental Education

Man as a part and parcel of the environment has to recognize the role and importance of environment in order to protect it, and to get protection from it, for this he needs environmental education.

## Defination

International Union for the Conservation of Nature (IUCN 1971)

The process of recognizing values and clarifying concepts in order to develop skills and attitudes necessary to understand

appreciate the interrelatedness among them men his culture and his biophysical surrounding. EE also entails practice in decision making and self formulation of a code for behaviour about issues concerning environmental quality.

## Goals of

### Environmental education

To improve the quality of environment

To create an awareness among the people on environmental problems and conversation



To create an atmosphere so that people participate in decision making and develop the capacities to evaluate the developmental programme

Environmental Awareness is essential for

Protection of the atmosphere

Protection of land resources

Conservation of biological diversity

Environmentally Sound management of biotechnology and hazardous wastes

Prevention of illegal trade in toxic products and waste

Environmental education is the process of recognizing values and clarifying is a learning process that increases about the environment and associated challenges develops the necessary skills and expertise to address the challenges and fosters attitudes motivation and commitments to make informed decisions and take responsible action

### The Components of environmental education

- ① Awareness
- ② Knowledge
- ③ Attitude
- ④ Skill
- ⑤ Participation


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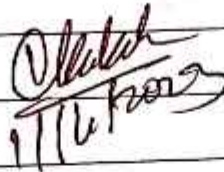
Department of Biotechnology

Academic Session :- 2022-23

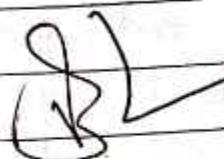
Ku :- Asmita Gajanan Kudmate

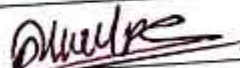
Assignment :- Microbiology - I

  
Principal

  
11/11/2023

  
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& Science College, WARDHA.

  
HOD  
Dept. of Biotechnology  
Indraprastha New Arts Commerce  
and Science College, Wardha

  
Subject Teacher

Q.1 discuss general characteristic of micro-plasma.

→ No card and Roux [1898] first isolated filterable and high pleomorphic microorganisms from cattle suffering from pleuropneumonia. A number of closely related organisms were isolated from animals, man, soil and sewage. As these organisms are responsible for causing pleuropneumonia in cattle they were called "pleuropneumonia like organisms" (PPO) for many years. These organisms are the smallest-known free-living organism because of the absence of cell wall, they do not stain with the gram stain, and they are more pleomorphic and plastic than eubacteria. with airmosa stain they appear as tiny pleomorphic cocci, short spirals, and some times as hollow ring forms their diameter ranges from  $0.15 \mu$  to  $0.30 \mu$ . mycoplasmas are saprophytes, common soils or parasites many are pathogens to plants, animals or insects.

classmate  
Date  
Page

\* classification :- In 1960 International Society of Nomenclature of Bacteriology has separated mycoplasma from bacteria and placed into in class mollicutes

Kingdom : Bacteria  
division : Firmicutes  
class : mollicutes  
order : mycoplasmales  
family : mycoplasmatales  
genus : mycoplasma

\* Lack of cell wall :- The most important property of the bacteria in the genus mycoplasma is the lack of a cell wall as they cannot synthesize peptidoglycan. Cell walls in bacteria help to give the cell structure. mycoplasma bacteria survive against certain antibiotics [ex. penicillin] as many antibiotics target the bacteria cell wall to kill infectious bacteria, mycoplasma are also more susceptible to lysis or the explosion of the cell, by osmotic imbalance due to lack of cell wall [In an osmotic imbalance a higher solute concentration on either the out side or inside of the cause water to flow into or out of the cell]

resulting in deformation and the possible destruction of the cell. But mycoplasmas are more stable than bacteria protoplasts and presence of sterols in their membrane for this stabilizing effect.

\* Cell morphology :- A about 100 to 200 micrometers in diameter, mycoplasma cell are some of the smallest bacteria ever discovered. Such a small size can present problems in filtration and sterilization techniques. Mycoplasma requires an outside source of cholesterol, usually obtained from the food human digest for cell biosynthesis. Cholesterol in the plasma membrane has special importance in bacteria that lack a cell wall to help maintain cell rigidity.

\* Cultural characteristics :- My mycoplasmas depend on their host for diverse nutritional requirements for in vitro cultivation. A small number of mycoplasmas existing in nature been so far cultivated in laboratory. The cultivable mycoplasma viz. mycoplasma pneumoniae and M. genitalium grow very slowly and poorly in vitro.

Serum [5-20%] heart infusion, yeast extract, glucose or arginine, added to media for mycoplasma. Serum provides cholesterol and acids for membrane synthesis and fatty acids or calcium acetate, or both is added to the medium to prevent contamination of fast growing bacteria. When mycoplasma grown on solid medium they grow at the centre from color with fried egg appearance because they grow at the centre while spreading outwards at colony edges.

\* Internal Structure :- The internal structure of mycoplasma are similar to typical prokaryotic cell and closely resemble bacteria. The nuclear structure is in the form of DNA which is smallest found in prokaryotes, about 800x 108 daltons but has sufficient genetic information of the cell. A significant amount of present with other metabolites in absent normal ratio. Mesosomes are evidently a may be because of the elasticity of cell membrane. Enzyme systems and metabolic and metabolic phenomenon of mycoplasma are slight

## Assignment.

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And Science College Wardha

Department of Biotechnology

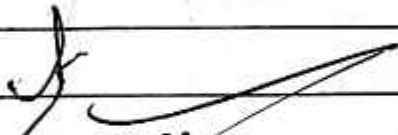
Academic Session :- 2022-23

Subject :- Microbiology  
(Paper - I)

Name :- Akanksh Kakatwal.

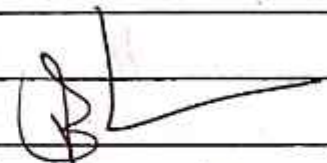
Class :- BSc. 3<sup>rd</sup> year. (VI sem)

Principal sign.



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Dept. of Biotechnology  
Indraprastha New Arts Commerce  
and Science College, Wardha

R. Z. Rewar  
Subject teacher.



1) Describe hemopoiesis.

→ In humans blood cells form a type of cell called hematopoietic stem cell (HSC). stem cells are cells that can differentiate into other cell type they are - renewing - they maintain their population level by cell division.

In humans hemopoiesis the formation and development of red and white blood cells, begins in the embryonic yolk sac during differentiation into primitive erythroid cell that contain embryonic hemoglobin.

In the third month of gestation, hematopoietic stem cells migrate from the yolk sac to the fetal liver and then to the spleen. Hence in hemopoiesis from the third to the seventh month's gestation.

Further that the differentiation of

Plasms in the become marrow. becomes the major factor in haematopoiesis and by birth there in liver and spleen.

It's contract to a unique cell, which differentiate into a single type, which hematopoietic stem cell is multipotent or pluripotent able differentiate various ways and they generate erythrocytes, granulocytes and macrophages.

Early in haematopoiesis a multipotent stem cell differentiate along one or two pathways giving rise to either a common myeloid progenitor cell, the type and amount of growth factors in the microenvironment of a particular cell or progenitor cell control into differentiation.

During the development of the hydroid and nucleoid lineages stem cells differentiate into progenitor cells.

(Q.2) Describe lymph node.

→ As blood circulates under pressure its fluid components (plasma) seep through the thin wall of the capillaries into the surrounding space.

Most of this fluid, cells, interested fluid returns to the blood, through the capillary membrane. The remainder of the interstitial fluid now called lymph, flows from the spaces in connective tissue into spaces in connective tissue large collecting vessels called lymphatic vessels.

The largest lymphatic vessels, the thoracic ducts, empty into the left atrium near the heart. In this way, the lymphatic system captures fluid lost from the blood and returns it to the blood, thus ensuring steady levels of fluid within the circulatory system.

When a fraction of a given substance is picked up by the lymphatic system

Various body and is caused to  
as lymph nodes, which trap the  
foreign antigen.

As lymph passes from the tissues  
to lymphatic levels, the become  
programmed to lymphatic  
thus the lymphatic system also serves  
as a means of transporting lymphocytes  
and antigen trapped antigen undergo  
activation to lymph node is illustrated in  
fig.

lymph nodes are the sites where  
immune responses are mounted to  
antigens in lymph.

associate with MHC molecules with in  
the cell intercellular and the peptide-MHC  
complexes are transported to the  
membrane whereas they are displayed  
when antigen presentation

class I and class II MHC molecules  
associate with peptides that have been  
processed in different intracellular  
compartments intracellular endogenous antigen  
that have been processed

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Department of Biotechnology

Academic Session : 2022 - 23

Assignment Copy.

Name : Jamiksha M shende

class : Bsc 1st sem (Biotechnology)

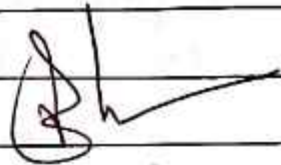
subject : Microbiology (assignment)

Roll no : 88

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Indraprastha New Arts Comm  
and Science College, Ward

D.D. Dambhore  
Subject Tech

# Assignment

Questions paper - 1 (2018)  
(History and Microbial Morphology)

Que 1] Explain experiments of Louis Pasteur and John Tyndall in support of biogenesis. (10)

Ans:- Louis Pasteur Experiment on biogenesis:-

- Despite above experiments the French naturalist Felix Pouchet claimed that microbial growth could occur in sterile nutrient broth without entry of contaminated air.

- This claim provoked Pasteur to disprove spontaneous generation once and for all.

- Pasteur first filtered air through cotton and found that objects resembling plant spores had been trapped.

- If a piece of the cotton was placed in sterile medium after air had been filtered through it, microbial growth appeared.

- Next he placed nutrient broth (boiled meat soup) in flask, heated its neck in a flame, and drew it out into an S-shaped curve (swan neck flask or Pasteur flask), while keeping the end of the neck open to the atmosphere.

- Pasteur then sterilized the nutrient broth by keeping flask in boiling water bath for a few minutes (Fig. 11.5).

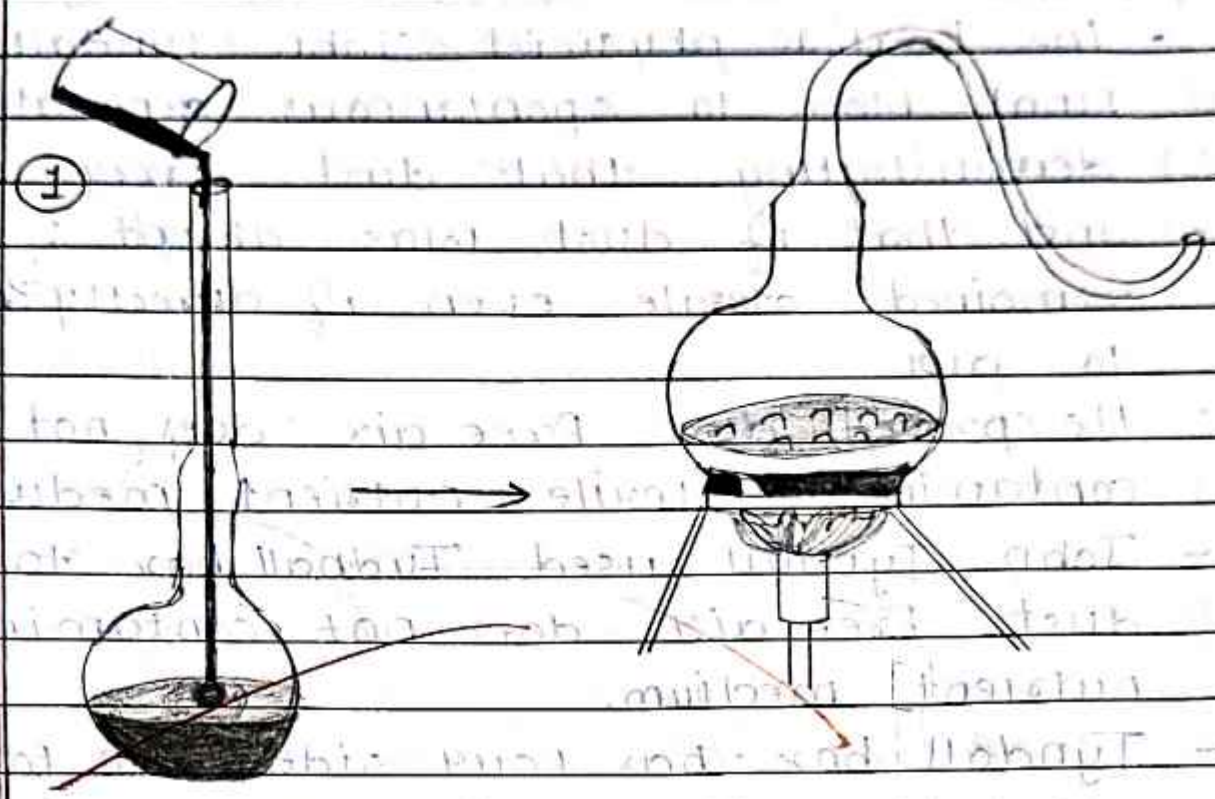
- He then allowed flask to cool.
- He reported no growth on incubation in the content of the flask even though exposed to the air.

When he broke the top of the flask, microbial growth occurred in nutrient broth on incubation.

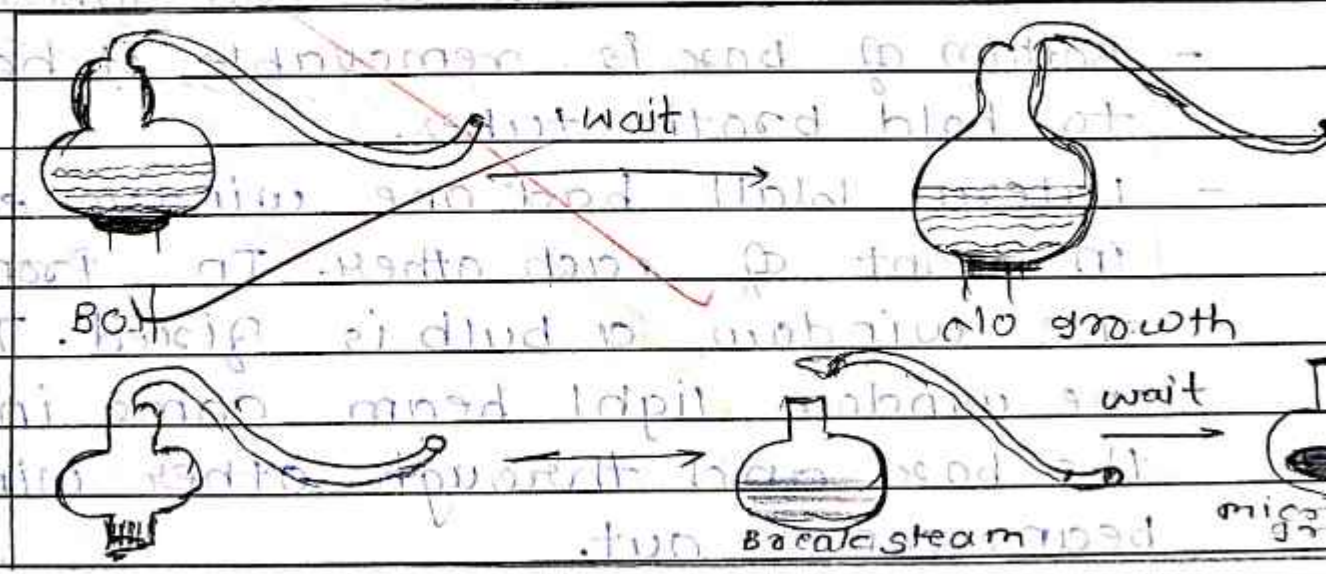
- He concluded that absence of microbial growth in broth was due to fact that when air travels through neck of flask get sterilized and sterile air enters in broth of flask. ~~sterilization of air before its entry in flask is due to fact that atmospheric air travel through a neck of flask which is long and with bends, so microbes of air get settled in bends of neck of flask.~~

pasteur proved microbial growth could occur in sterile nutrient broth with entry of contaminated air.

~~Next he placed nutrient broth in flask, heated it back in incubator, and if out into an S-shaped curve (swan neck flask or pasteur flask). While keeping the neck open to the atmosphere, pasteur then sterilized the nutrient broth by boiling flask in boiling water bath for 30 minutes.~~



Pasteur's swan neck flask experiment (1) pour of nutrient broth, (2) heating after attachment of swan neck



Boiler complete setup of Pasteur's swan neck flask experiment.



Page:   
 Date: 

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\* John Tyndall Experiment on Biogenesis:

- The English physicist John Tyndall gave final blow to spontaneous generation by demonstrating that dust carry germs and that if dust was absent; broth remained sterile even if directly exposed to air.

- He proved dust free air does not contaminate sterile nutrient medium.
- John Tyndall used Tyndall box to prove dust free air does not contaminate sterile nutrient medium.

- Tyndall box has four sides, one top and one bottom. Top of box has two laterals and one central opening.

- Each lateral opening is connected to convoluted tube. central opening is to add nutrient broth to test tubes.

- Bottom of box is removable it has provision to hold broth tubes.

- Lateral wall had one window each in front of each other. In front of one window a bulb is fixed. Through one window light beam come inside the box and through other window light beam comes out.

- All side of box was coated with glycerin to trap dust particles of air present in box.

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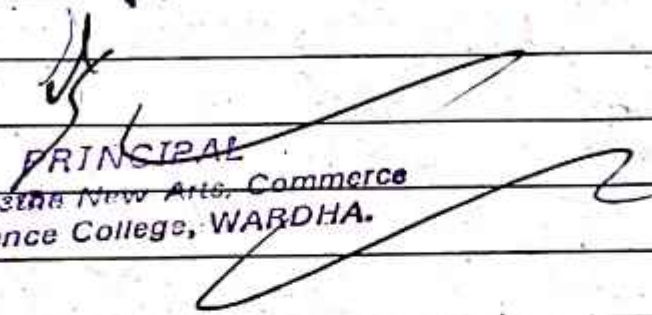
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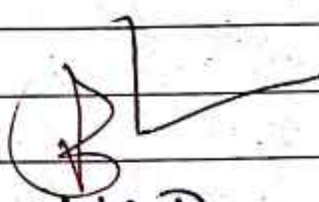
Subject :- Assignment

Name :- Samrudhi Jawas

class :- MSc 1<sup>st</sup> Sem

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and Science College, War

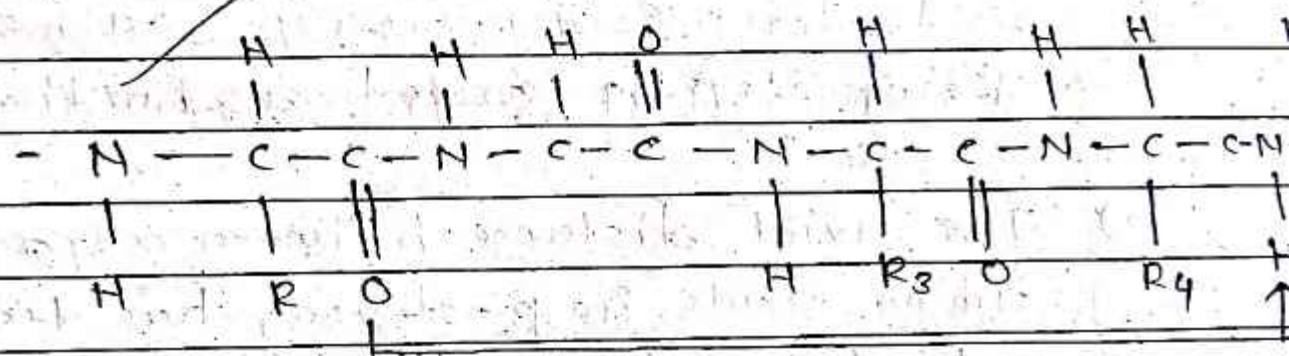
Subject Teacher



main chain forms the inner part of the rod, and the side chains extend outwards in a helical array.

• The  $\alpha$ -helix is stabilized by hydrogen bonds between the NH and CO groups of the main chain.

• The CO group of each amino acid is hydrogen-bonded to the NH group of the amino acid that is situated four residues ahead in the linear sequence.



• It is, thus, apparent that the  $\alpha$ -helical structure depends on the intramolecular C=O  $\rightarrow$  intrachain hydrogen bonding between the NH and CO groups of peptide bond.

• The hydrogen bonding occurs spontaneously and as a result, a polypeptide can assume a rod-like structure with well defined dimensions.

2)  $\beta$ -pleated sheet

Pauling and Corey (1953) identified a second type of repetitive, minimum energy or stable conformation, which they named  $\beta$ -pleated sheet.

The  $\beta$ -pleated sheet differs markedly from the rodlike  $\alpha$ -helix:

1. A polypeptide chain in a  $\beta$ -pleated sheet, called a  $\beta$ -strand, has fully extended conformation, rather than being tightly coiled as in the  $\alpha$ -helix.

2) The axial distance between adjacent amino acids in  $\beta$ -strand, has fully extended conformation, pleated sheets in 3.5 Å, in contrast with 1.5 Å for the  $\alpha$ -helix.

3)  $\beta$ -sheet is stabilized by hydrogen bonds between NH and CO groups in different polypeptide strands, whereas in the  $\alpha$ -helix, the hydrogen bonds are between NH and CO groups in the same strand.

• These are two types of  $\beta$ -pleated sheet structures. At N-terminal ends of all the participating polypeptide chains lie on the same edge of the sheet, with all C-terminal ends on the opposite edge. The structure is known as a parallel  $\beta$ -pleated sheet.

• silk fibroin :-

is one example of a protein that has the antiparallel pleated sheet structure. It is a member of a class of fibrillar proteins called  $\alpha$ -keratins.

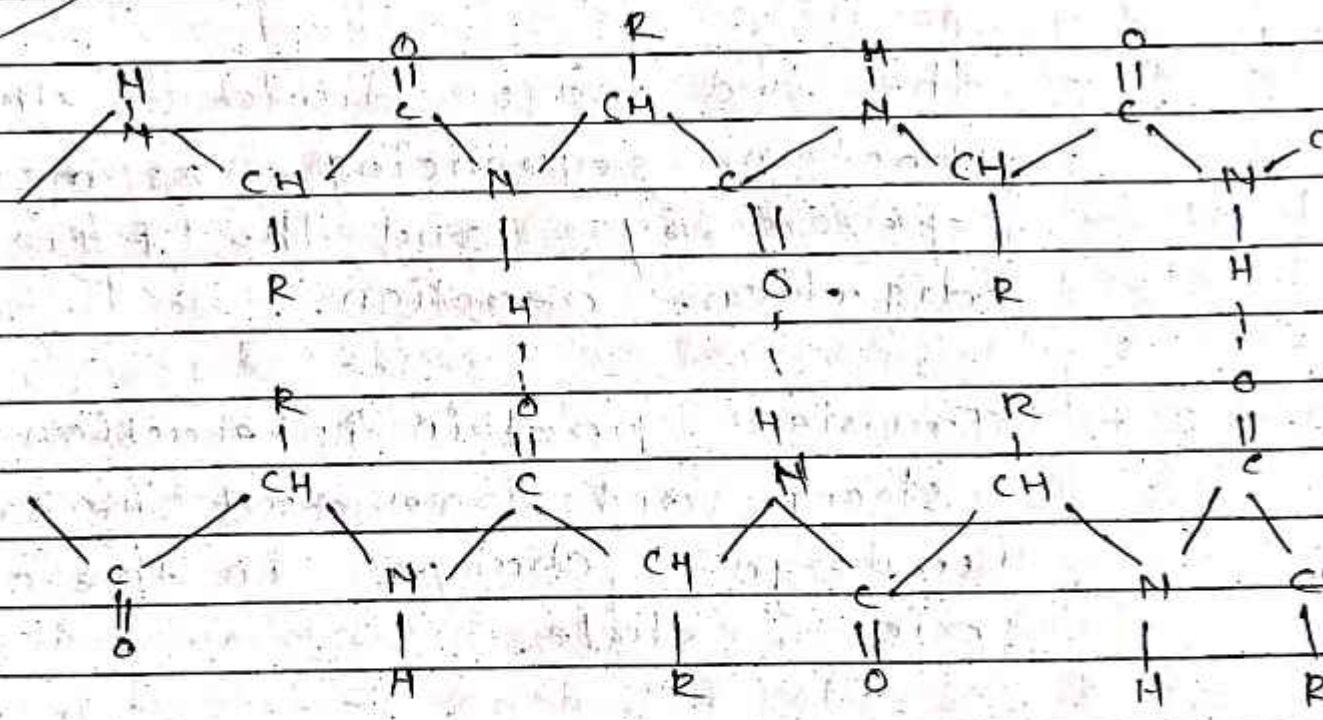


Fig A portion of two chain of silk fibroin.

Ques. → Discuss in detail protein sequencing

Proteins are found in every cell and are essential to every biological process. Protein structure is very complex; determining amino acid sequences of its constituent peptides and also determining what conformation it adopts and whether it is complexed with another peptide nucleic acid.

- The two major direct methods of protein sequencing are mass spectrometry and the Edman digestion reaction.

- Transient protein interactions - strong and irreversible. It readily undergoes changes in the oligomeric state.

- Interaction and protein, kinase, protein phosphate glycosyl transferase

# Assignment

Indraprastha New Arts, Commerce  
and Science College Wardha

Department of Biotechnology

Academic session :- 2022-23

Subject :- Biotechnology  
(paper-1)

Name :- Saniya Moon

Class :- BSc. 1<sup>st</sup> sem

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HOD sign

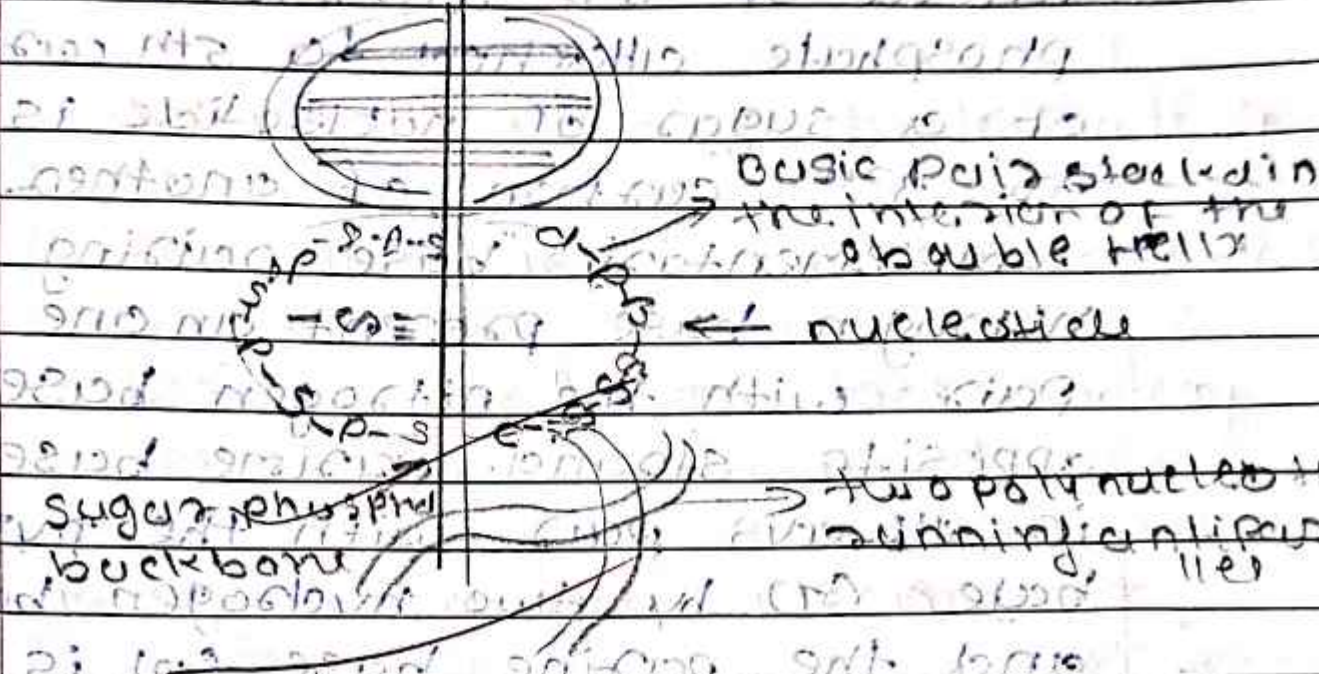
Dept. of Biotechnology  
Indraprastha New Arts Commerce  
and Science College, Wardha

D. D. Dambhane

Subject Teacher

Q.1. Describe structure of DNA in detail.

Ans:



Structure of DNA

Structure of DNA

• DNA molecule as a double helix  
According to the model proposed by Watson and Crick a DNA molecule consists of two long strands called around a common imaginary paired axis to form a twisted ladder and

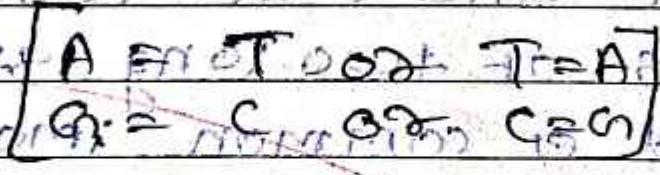
show alternating major and minor

• Structure of each strand  
Each strand of DNA consists of number of nucleotide units. Each nucleotide is made up of deoxyribose sugar, phosphate group and nitrogen base. The successive

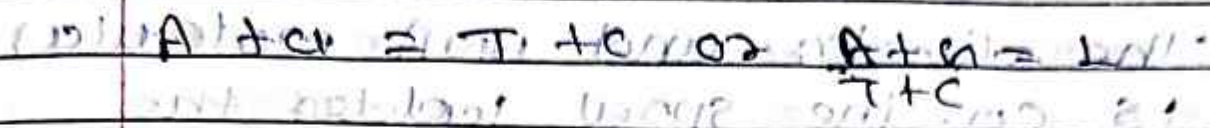


nucleotide of same strand are linked by 3-5' phosphate anhydride phosphate attached to 5th carbon of a sugar of nucleotide is joined to 3<sup>rd</sup> carbon of another.

- complementary base pairing the nitrogen base present on one strand pair with the nitrogen base of opposite strand. purine base (A) is always pair with the pyrimidine base (T) by two hydrogen bonds and the purine base (G) is always pair with the pyrimidine base (C) with three hydrogen bonds. the pairing is termed as complementary



- purine/pyrimidine ratio due to complementary base pairing total number of purine base is always equal to the total number of pyrimidine base. this is called charge ratio. it is may be represented as follows



• Polarity of strand: Each strand of DNA has a specific polarity. One end is considered as 5' end whereas the other end is 3' end. This polarity is because of 3<sup>rd</sup> and 5<sup>th</sup> carbon atoms of the deoxy base sugar. At 5' end there is a free phosphate group while at the 3' end there is a free -OH-group. The structure runs in 5'-3' direction. This is arrangement of two strands of DNA is considered as antiparallel.

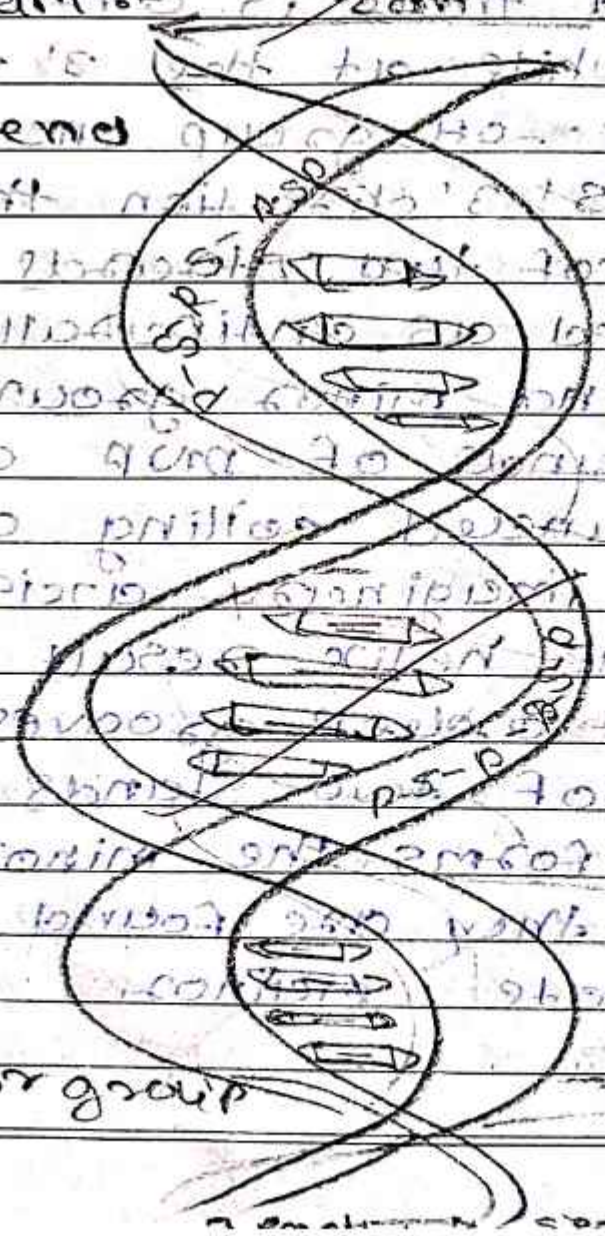
- Major and minor grooves: Normally the strands of DNA undergo right handed coiling around a central imaginary axis. The coiling of double helix results in formation of major and minor grooves. The twisting of two strands around one another forms the major or shallow grooves. They are found in alternate minor.

• Dimension:-

The diameter of DNA molecule is 2 nm. The spiral ladder the arrangement of DNA molecule is due to deflection of pitch angle of  $36^\circ$  between two successive steps. DNA molecule makes one complete  $360^\circ$  turn after covering distance of 3.4 nm.

Diagram:-

DNA molecule  
 major groove  
 minor groove  
 3.4 nm



major groove

नाम :- प्रणव दि. शिवराज  
Class :- MSW - 2<sup>nd</sup> year [6<sup>th</sup> Sem]

Sub :- Social policy planning  
and development



प्र. १ भारतातील कुटुंब कल्याण घोरण स्पष्ट करा.

उत्तर :- केंद्र शासनाच्या मार्गदर्शक सूचनांनुसार महाराष्ट्रात लोकसंख्या वाढीच्या नियंत्रणासाठी राष्ट्रीय कुटुंब कल्याण कार्यक्रम राबविला जातो. सहाय्यक अनुदान योजना ही सदर कुटुंब कल्याण कार्यक्रमाचाच एक भाग असून ती योजना सन १९३० मध्ये सुरू झालेली आहे. सदर योजना १०० टक्के केंद्र पुरस्कृत आहे.

लोकसंख्या वाढीवर नियंत्रण व लोकसंख्या स्थिरतेस सहाय्य करणे

केंद्र शासनाच्या पुढे दिलेल्या मार्गदर्शक तत्वांनुसार योजनांची अंमलबजावणी करण्यात येते.

- लाभार्थीने स्वच्छते कुटुंब नियोजन पद्धत स्वीकारणे
- सहाजाच्या गरजेनुसार सेवा देणे
- जोड्याला त्यांच्या इच्छेनुसार ही सेवा आपल्या प्राप्ती.

आरोग्य कर्माच्यामार्फत लाभार्थ्यांचे संपत्ती नियोजनाच्या उपलब्ध पद्धतीविषयी निवड करतो. सदर केंद्र शासन पसुती पश्चात कुटुंब नियोजन सेवांवर अभ्यासिक भर देत आहे.

कुटुंब कल्याण कार्यक्रमांतर्गत लाभार्थ्यांना द्यावयाच्या सेवांमध्ये कायमच्या

# I N D E X

Name: Nikhil Chandrakant Mankar

Std: M.S.W. Div: III<sup>rd</sup> Sem Roll No: \_\_\_\_\_

Sub: \_\_\_\_\_ School/College: New Arts, Commerce  
Science College,  
Wardha

Sr. No.	Date	Title	Pg. No.
		<p>- <u>Assignment for</u> <u>Subject</u> <u>Medical Social</u> <u>Work</u></p>	



## प्र. क्र. ३ टिपा लिहा .

### १. कुठणांचे अधिकार :-

खालील प्रकारे कुठणांचे अधिकार आपण सांगू शकतो .

(१) आरोग्य सेवा उपलब्धतेचा हक्क :-

जात, वर्ग, लिंग, M.I.V., संसर्ग किंवा अशा इतर कोणत्याही बंधकांवर आधा-  
-रित्त भेदभावाशिवाय सर्व कुठणांना आरोग्य सेवा समान लाभ मिळाला पाहिजे .

(२) तातडीचे उपचार मिळण्याचा हक्क :-

सर्वच न्यायालयाच्या अहिसानुसार प्रत्येक व्यक्तीला तिची कार्यक्षम किंवा आर्थिक स्थिती विचारात न घेता तातडीचे उपचार मिळण्याचा हक्क आहे

(३) माहितीचा अधिकार :-

(अ) कुठणांना किंवा त्यांच्या प्रतिनिधींना आजाराची संभाव्य कारणी, प्रस्तावित वैद्यकीय तपासण्या व उपचार, त्यांच्या खर्च, होणारे परिणाम व संभाव्य श्रुताश्रुती तसेच पयथी वैद्यकीय उपचार व उपचार न केल्यास होणारे परिणाम याबद्दल सर्व आवश्यक माहिती पुरवणी गरजेचे आहे .

कु. अशोक केकराव  
 यावकीकर  
 न्यू आर्ट्स, कॉमर्स  
 अन्ड सायन्स कॉलेज  
 वधा

एम. एस. डब्ल्यू

III सेम

विषय :- Social Policy  
 Planning and  
 Development

~~XXXXXXXXXX~~





# Assignment - 1.

प्र. ३. भारतीय कुटुंब कल्याण खाता, उपलब्ध कराई.

⇒ केंद्र शासनाच्या मार्गदर्शक सूचनांनुसार महाराष्ट्रात लोकसंख्या वाढीच्या नियंत्रणासाठी राष्ट्रीय कुटुंब कल्याण कार्यक्रम राबविण्यात आला. सहाय्यक अनुदान योजना ही सध्या कुटुंब कल्याण कार्यक्रमात एक भाग असून ही योजना सन २०१० मध्ये सुरु झाली आहे.

- लाभार्थी गरजेनुसार सेवा देणे.
- लाभार्थी स्वच्छता कुटुंब नियोजन पध्दती त्रिकोणी.
- त्रिकोणाच्या उद्देशानुसार ही सेवा आपल्या घाटी.

आरोग्य कार्यक्रमांमार्फत लाभार्थी संतती नियंत्रणाच्या उपलब्ध पध्दतीविषयी निवड करतो. अद्याप केंद्र शासन प्रशुती पश्चात कुटुंब नियोजन सेवांवर अत्याधिक भर देत आहे.

लोकसंख्या वाढीवर नियंत्रण आणण्यासाठी राज्यात कुटुंब कल्याण कार्यक्रम राबविण्यात येतो. यासाठी राज्याने दि. १ मे २००० च्या शासन निर्णयानुसार छोटे कुटुंब या संकल्पनेचा त्रिकोणी केला आहे. छोटे कुटुंब म्हणजे दोन

1) मा

New Arts Commerce &amp;

Science College (Wardha)

NAME :- Shweta Gayanan Male

Subject :- Social Policy Planning and  
development ग्रामाण समुदाय विकासवरील परिसर

Class :- MSW III sem

ग्रामाण समुदाय विकासवरील  
परिसर

1) भारतीय कुटुंब कल्याण धोरण  
सहज करा.

उत्तर :-

कुटुंब शासनाच्या मागदर्शक सुचनानुसार  
महाराष्ट्र लोकसंख्या वाढीच्या नियंत्रणासाठी  
राष्ट्रीय कुटुंब कल्याण कार्यक्रम राबविला  
जातो. महत्त्वपूर्ण अनुदान योजने ही  
सहज बाब. कुटुंब कल्याण कार्यक्रमाचा  
एक भाग असून ती योजने सन 1960  
मध्ये सुरु झालेली आहे. सहज योजने  
100% कुटुंब सरकार उकलून आहे.

उद्दिष्ट्य :-

लोकसंख्या वाढीवर नियंत्रण  
व लोकसंख्या स्थिरता महत्त्व करणे.

अभिलक्षणा पद्धत कुटुंब प्रश्नाच्या  
पुढे दिलेल्या मागदर्शक सुचनानुसार योजनेचा  
अभिलक्षणा करवात येते.

1) लाभार्थीने स्वतःने कुटुंब नियोजन पद्धत  
मिळवणे

2) प्रमाणाच्या गरजेनुसार सेवा देणे

3) जोडवाला त्यांच्या स्वतःनुसार ही सेवा  
अपत्य ज्ञानी

कुटुंब कल्याण कार्यक्रमा  
अंतर्गत लाभार्थींना द्यावयाच्या सेवांमध्ये  
आयमच्या पद्धती व तानपुरती पद्धत  
मसे दोन प्रकार मोट्या आयमच्या पद्धतामध्ये

# INDEX

Name:

Rohan H. Ghume

Class: M.S.W

3rd Sec.5th Subject: Social Policy Planning & Devl.

Sr. No.	Date	TITLE	Pg. No.	Remark
1)		1) भारतीय कुटुंब कल्याण धारेण स्पष्ट करा.		
2)		2) बाल न्याय (कालजीव संरक्षण) कायदा 2006 चें आत्मिक परिशोधन करा.		
3)		3) रिषा i) सामाजिक विकसन ii) हुडा संकल्पना		



नाव :- मृगालिनी दत्तात्रय बुडे.

वर्ग :- MSW - II (Sem - III) येणे.

विषय :- Social Policy Planning and  
development.



प. 27। - बाल न्याय [क्रांती व संरक्षण]  
 कयदा 2006 चे विकामक परिष्कार करता,  
 उत्तर ->

\* बाल न्याय अधिनियम [क्रांती व संरक्षण]  
 2015. हा कयदा कुनाशाठी वय व 18  
 खालील बालकांसाठी नि. मुलगा किंवा मुलगी  
 विध्या संघर्षितय बालकांसाठी वय ते ते 18  
 वयोगील बालक ज्याने गुन्हा केला असे.  
 अप्रामोक्ष्यात विषयात आहे.

\* क्रांती संरक्षणाचे गरज असलेल्या बालकांसाठी  
 0 ते 18 वयोगील बालक ज्या बालकांचे पालन  
 पोषण करताहेत ह्यांना बाहेर.

बाल न्याय मंडळ - विध्या संघर्षितय बालकांसाठी  
 विषयासमावर कार्यालय असत.  
 \* वय ते ते 18 वयोगील खालील बालक मुलगा किंवा  
 मुलगी ज्याने गुन्हा केला असे बाबत आहे.  
 अशा बालकांविषयी जाणिव घेवाचे माझे पत्र  
 अद्योत्तर हे बाल न्याय मंडळास असत.

\* बाल न्याय मंडळा मध्ये - 1. प्रथमपती  
 न्याय दंडाधिकारी व  
 2 सामाजिक कार्यकर्ते  
 असतात.

Name Shivani Wamanrao Naitam

Collage New Arts Commerce and  
Science Collage

Subjed - social policy planning  
and development

Class - M.S.Cal - III Sem

भाषादक्षि - सौ. चनक्षी वाद्य



9) भारतातील कुटूंब कल्याण होरठा स्पष्ट करा

→ केंद्र शासनाच्या मागेदशक सुधानांनुसार महाराष्ट्रात लोकसंख्या वाढीच्या नियंत्रणासाठी राष्ट्रीय कुटूंब कल्याण कार्यक्रम राधापिल्या जातो .

सहाय्यक अनुदान योजना ही सदर कुटूंब कल्याण कार्यक्रमाच्या एक भाग असून ती योजना सन 1960 मध्ये सुरु झालेली आहे . सदर योजना 100% केंद्र पुरस्वत आहे .

लोकसंख्या वाढीवर नियंत्रण व लोकसंख्या स्थिरतेम सहाय्य करणे .

केंद्र शासनाच्या पुढे दिलेल्या मागेदशक तात्त्वानुसार योजना-ची अमलवजावणी करण्यात येते .

\* नाभाशीने स्वच्छेने कुटूंब नियोजन पद्धत स्विकारणे .

\* समाजाच्या गरजेनुसार सेवा देणे .

\* जोडप्याला त्यांच्या इच्छेनुसार हवी तेव्हा आपली प्राप्ती .

आरोग्य कमीच्या-यामार्फत नाभाशीचे संतती नियमनाच्या उपलब्ध पद्धती विषयी निवड करतो . सह्या केंद्र शासन प्रसूती कुटूंब नियोजन .



क्या ही हिंदी का नाम है  
किसी वही,

नाम :- अमर प्रसाद वाद्यपति

विषय :- सामाजिक चेतना  
विशेष :-

पत्र :- मं. 5.12-11 (सं. 11)



प्र-1 भारतीय लोक उद्योग और स्वयं  
उद्योग:-

= लोक शासनपालिका आर्थिक सुधारानुसार  
अवधारणाले लोक उद्योग वाढिने विद्यमानको  
राष्ट्रिय लोक उद्योग कार्यक्रमको एक  
मुख्य उद्देश्य हो। यो योजना सन् 1960  
मध्ये सुरु भएको हो।

यसको योजना 100% लक्ष्य लोक  
पुनर्स्थापना हो।

लोक उद्योग वाढाउने विधान  
ले लोक उद्योग शक्ति सहायक  
करको

~~लोक शासनपालिका पुर्ण कालीन  
आर्थिक सुधारानुसार योजनाको  
अंशगतमात्रमात्र अवधारणको~~

- शासनपालिका सन् 1960 लोक उद्योग  
पुनर्स्थापनाको

- शासनपालिका विधानको विषय हो

- शासनपालिका योजनाको सन् 1960  
को लक्ष्य अपूर्ण हालको

लोक उद्योग कार्यक्रमको  
अंशगत

नाव :- कपिल गौलमराव मूनू  
 ज्येष्ठ आर्ट्स, कॉमर्स इण्ड  
 सोलवर्स कॉलेज वर्धा  
 M.S. W. 2 नव पर.  
 मूलिय सत्र

विषय :- शाही समुदाय विकासावर  
 परिदृश्य

( Perspectives on Marathi Community  
 Development )

मागद्विक :- प्रा. सिद्धांत ठोके सर



प्र. क्र ③ शहरी समुदायाची अर्थ व्याख्या आणि वैशिष्ट्ये सविस्तर स्पष्ट करा ?

उत्तर :- सामाजिक जीवनाच्या संघटनेच्या रूपाने गाव आणि शहर या दोन्हीचे स्थान महत्वपूर्ण आहे. भारतात शहरी क्षेत्राचा संबंध उपनगर आणि नगर या दोन्हीशी आहे. म्हणून भारतामध्ये शहरांना उपनगरांना वेळोवेळी सांगण्यासाठी कोणतेही वेगळी अशी सुनिश्चीत व्याख्या नाही. तरीसुद्धा काही तज्ञांनी शहरी समुदायाची व्याख्या व्यापक प्रमाणात दिलेली आहे.

बगैबच्या मते " त्या वर्गीकृत नगर म्हणजे येईल, जेथील अधिकार निवासी वृष्ठी कार्यव्यतिरिक्त उद्योगामध्ये व्यसन असताना.

सोमवर्तच्या मते, " नगर एक असे स्थान आहे की, तेथील निवासी परस्परे एक दुसऱ्याला ओळखत नाही. "

नवारीस क्षेत्रात मुख्य रूपाने वस्तीच्या त्या समूहाचा समावेश केला जातो, जेथील निवासी मुख्यतः गैरकृषी व्यवसायात सामीलित असतात. म्हणून नवारीस शब्दाच्या प्रयोगा कसबा, नगर,

नाव सुदहलल जगनराय पखाले

कॉलेज इंफ्रमरिटी लु आरि वॉगरी अँडु  
सायन्स कॉलेज वधा

विषय Medical Social work



①

प्र. ५१ वैयक्तिक समाजकार्य म्हणजे काय  
व त्याचा परिहारिक विकास सांगा ?

वैयक्तिक समाजकार्य हा समाजकार्याचा  
उपविभाग आहे. वैयक्तिक समाजिक  
कार्यकारी संस्थानामा किंवा सुरक्षागृह येथे  
काम करतात. ते वैयक्तिक समाजकार्या-  
मध्ये स्नातक किंवा स्नातकोत्तर  
पदवी घेतलेले असतात.

अशा संस्थांना महत्त्व व त्यांच्या  
नातेपारिकांवा मनोसामाजिक महत्त्व  
करतात. ज्यांना त्यांची गरज असते  
भारतीय समाजात प्राविण काकापत्रुण  
संस्थांची स्थापना आणि सेवा करण्याची  
पद्धत प्रथा राहिली आहे.

प्रत्येक व्यक्तीने एक दुसऱ्याची  
सेवा करणे आपली जबाबदारी  
समजात असे पारंपारिक व  
सामाजिक कार्यकारी माणूसही  
दृष्टीकोनातून असतात. विद्यालय

संस्थानामा इ. ज्या माध्यमातून  
जनसेवा करतांना किंवा येतात.

आरोग्य विकास वोग विमुलवू  
आणि उपचार क्षेत्रात आणी

तंत्रज्ञानाचा उपयोग त्यांचा

वैयक्तिक समाजकार्य म्हणजे म्हटले  
जाते.

Name:- Nikita Prabhakar Dahake

College:- New Arts Commerce And  
Science college Wardha

Class:- BSC [C.S] 1<sup>st</sup> year

Subject:- Physics. I



A large, stylized handwritten signature in blue ink.

PRINCIPAL

Indraprastha  
& Science College, Wardha

A handwritten signature in blue ink, appearing to be "Swati Lambat".  
swati lambat

Dept. of Computer Science  
Indraprastha New Arts Commerce  
and Science College, Wardha

SUHANI<sup>o</sup> PRAVIN MANDAVKAR

class :- BSC 1<sup>st</sup> sem CS

subject :- Physics ~~II~~

(5)

Swati Lambat

Dept. of Computer Science  
Indraprastha New Arts Commerce  
and Science College, Wardha



A large, stylized handwritten signature in blue ink.

PRINCIPAL  
Indraprastha New Arts, Commerce  
& Science College, WARDHA.



SUHANI<sup>o</sup> PRAVIN MANDAVKAR

class :- BSC 1<sup>st</sup> sem CS

subject :- Physics ~~II~~

(5)

Swati lambat

Dept. of Computer Science  
Indraprastha New Arts, Commerce  
& Science College, Wardha



A large, stylized handwritten signature in blue ink.

PRINCIPAL  
Indraprastha New Arts, Commerce  
& Science College, WARDHA.

SUHANI<sup>0</sup> PRAVIN MANDAVKAR

class :- BSC 1<sup>st</sup> sem CS

subject :- Physics ~~II~~

(5)

Swati lambat

Dept. of Computer Science  
Indraprastha New Arts, Commerce  
& Science College, Wardha



A large, stylized handwritten signature in blue ink.

PRINCIPAL  
Indraprastha New Arts, Commerce  
& Science College, WARDHA.

Name: Yashasvi Avinashrao Bhojale

Std: 1<sup>st</sup> Sem Div: C.S. Roll No: \_\_\_\_\_

Sub: C.S.I School / College: Indraprastha

Sr. No.	Date	Title	Remark	Pg. No.
---------	------	-------	--------	---------

(SL)

Swati Lambat

Dept. of Computer Science  
Indraprastha New Arts Commerce  
and Science College, Wardha



A large, stylized handwritten signature in black ink, likely belonging to the Principal.

PRINCIPAL

Indraprastha New Arts, Com  
& Science College, WARD

SUHAN<sup>0</sup> PRAVIN MANDAVKAR

class :- BSC 1<sup>st</sup> sem cs

subject :- Physics ~~II~~

(5)

Swati Lambat

Dept. of Computer Science  
Indraprastha New Arts Commerce  
and Science College, Wardha



A large, stylized handwritten signature in blue ink.

PRINCIPAL  
Indraprastha New Arts, Commerce  
& Science College, WARDHA.

Name :- Samiksha Jivanrao Mahakalkat.

Math II

class BSC (CS) 1<sup>st</sup> year.

SL

Suati Lambert

Dept. of Computer Science  
Indraprastha New Arts Commerce  
and Science College, Wardha



PRINCIPAL  
Indraprastha New Arts, Com  
& Science College, WARDHA

Name :- Nikita Prabhakar Dahake  
Indraprastha

College :- New Arts, Commerce And  
Science College Wardha

Class :- BSc [C.S] 1<sup>st</sup> year

Subject :- Math 2



PRINCIPAL

Indraprastha New Arts, Commerce  
& Science College, Wardha

Bl

Swati lambat

Dept. of Computer Science  
Indraprastha New Arts Commerce  
and Science College, Wardha

Name = Ku. Punam Nilkanth Pimpalkar

college = New arts commers &  
science college wardha

class = 1st year Bsc. (CS)

Subject = Math I



A handwritten signature in blue ink, consisting of a stylized 'P' followed by a long horizontal stroke.

Handwritten initials "SL" in blue ink.

swati lambat

PRINCIPAL  
Indraprastha College of Arts, Commerce  
& Science, WARDHA.

Dept. of Computer Science  
Indraprastha New Arts Commerce  
and Science College, Wardha

Name :- Nikita Prabhakar Dahake

College :- New Arts Science And  
Commerce College Wardha

Standard :- 1 year Bsc. CS

Subject :- **Physics** - (II)

Sl

Swati Lambat

Dept. of Computer Science  
Indraprastha New Arts Commerce  
and Science College, Wardha



PRINCIPAL  
Indraprastha New Arts Commerce  
& Science College, WARDHA



Name:- Nikita Prabhakar Dahake

College:- New Arts Commerce And  
Science college Wardha

Class:- BSC [C.S] 1<sup>st</sup> year

Subject:- Physics. I



A large, stylized handwritten signature in blue ink.

PRINCIPAL

Indraprastha

& Science College, Wardha

A handwritten signature in blue ink.

swati lambat

Dept. of Computer Science  
Indraprastha New Arts Commerce  
and Science College, Wardha

SUHAN<sup>0</sup>I PRAVIN MANDAVKAR

class :- BSC 1<sup>st</sup> sem CS

subject :- Physics ~~II~~

(5)

Swati Lambat

Dept. of Computer Science  
Indraprastha New Arts Commerce  
and Science College, Wardha



A large, stylized handwritten signature in blue ink.

PRINCIPAL  
Indraprastha New Arts, Commerce  
& Science College, WARDHA.