

**Shri Swami Vivekanand Shikshan Sanstha's
Vivekanand College, Kolhapur (Autonomous)**

**Department of Microbiology
Academic year 2018-2019**

B.Sc I

Notice

Date: 25/09/2018

All the students of B.Sc. I Microbiology are hereby informed that, the unit test of Paper DSC-1010 section I- Unit II is scheduled on **05/10/2018** at **10.00 a.m.** Students should be present on time. Unit test is mandatory to all students.



A handwritten signature in black ink, appearing to read "V.V. Misal".

V.V.Misal

**Incharge Head
Department Of Microbiology
Vivekanand College, Kolhapur.
(Autonomous)**

Vivekanand College, Kolhapur
Department of Microbiology
B.Sc.I (2018-19)
Paper DSC-1010
SECTION I- Unit II Test

Marks: 25
Time: 10.00-11.15am

Date-05-10-2018

Que. 1. Rewrite the sentence by choosing correct alternative. (05 marks)

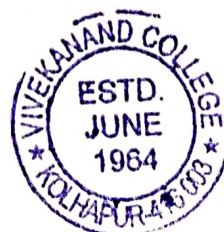
- 1) The infectious agents made up of only proteins are known as -----
a) Viroids b) Viruses c) Bacteria d) Prions
- 2) Membrane filters with pore size ----- are commonly used.
a) 2 μ m b) 10 μ m c) 0.2 μ m d) 8 μ m
- 3) UV rays show highest bactericidal activity at ----- nm wavelength.
a) 200 b) 225 c) 265 d) 300
- 4) The oligodynamic action is shown by-----
a) Enzymes b) Detergents c) Heavy metals d) Alcohol
- 5) Unicellular fungi are called.....
a) Bacteria b) Yeast c) Molds d) Algae

Que. 2. Attempt any ONE (08 marks)

- i) Discuss in detail differences between "Prokaryotic and Eukaryotic" organisms.
- ii) Describe in detail Halogens and Heavy metals as chemical sterilizing agents.

Que. 3. Attempt any THREE (12 marks)

- i) Osmotic pressure
- ii) Viroids
- iii) Membrane filter
- iv) Sterilization by radiations
- v) Prions



Vivekanand College, Kolhapur

Department of Microbiology

B.Sc.I (2018-19)

Paper DSC-1010

SECTION I- Unit II Test

Date-05-10-2018

Sr. No.	Name of Student	Roll No.	Marks (Out of 20)
1	ANGRE SRUSHTI PANDURANG	7794	Absent
2	AYARE SHRUTIKA UMESH	7795	17
3	CHAVAN SAYALI SHANKAR	7796	Absent
4	CHOUGALE OMKAR SHASHIKANT	7797	Absent
5	GURAV PRAJAKTA CHANDRAKANT	7798	Absent
6	HAVALE MANASI ANIL	7799	14
7	HIRDEKAR MRUNAL RANGRAO	7800	Absent
8	HUMBE PRIYANKA VIJAY	7801	Absent
9	JADHAV ROHAN RAMDAS	7802	Absent
10	KAMBLE ARUNDHATI AVINASH	7803	13
11	KHAIRMODE RUCHITHA CHANDRAKANTH	7804	15
12	KOLI KRUTIKA RAJENDRA	7805	05
13	LAD SUPRIYA ANANDA	7806	09
14	MAGADUM PRATIKSHA MAHIPATI	7807	Absent
15	MALAP SHITAL KRUSHNAT	7808	Absent
16	MORE NIKITA DILIP	7809	13
17	MORE SHRADDHA PRAKASH	7810	11
18	MUNDE RAMESHWAR BALAJI	7811	Absent
19	NAIK RUTUJA LAXMAN	7812	12
20	NAIKWADI FIZA AFTAB	7813	12
21	NIGAVEKAR HARSHADA RAMESH	7814	16
22	PATIL VAISHNAVI VYANKATESH	7815	15
23	PATIL ABHAY BAJIRAO	7816	18
24	PATIL AKSHATA KUBER	7817	14
25	PATIL ANUSHKA DHANAJI	7818	13
26	PATIL RAJASHRI PRAKASH	7819	Absent
27	POWAR RAVINA KIRAN	7820	Absent
29	POWAR NITA TANAJI	7821	13
30	RAJMANE MANSI RAJENDRA	7822	Absent
31	SHINDE TEJASWINI SUBHASH	7823	Absent
32	SUTAR MONICA GORAKHNATH	7824	Absent
33	SUTAR SHWETA BAJIRAO	7825	Absent
34	THANEKAR SHWETA VISHNU	7826	12
35	TORASE SAYALI TUKARAM	7827	Absent
36	VARUTE NILAM ANANDA	7828	13



**Shri Swami Vivekanand Shikshan Sanstha's
Vivekanand College, Kolhapur (Autonomous)
Department of Microbiology
Academic year 2018-2019**


B.Sc II

Notice

Date: 25/09/2018

All the students of B.Sc. II Microbiology are hereby informed that, the unit test of Paper -V Unit III is scheduled on 20/10/2018 at 10.30 a.m. Students should be present on time. Unit test is mandatory to all students.




V. V. Misal
Incharge Head
Department Of Microbiology
Vivekanand College, Kolhapur.
(Autonomous)

Vivekanand College, Kolhapur
Department of Microbiology
B.Sc.II (2018-19)
Paper V
Test- Unit III

Time: 10.30-11.30am.

Date: 20-10-2018

Marks- 25

Qu.1. Rewrite the sentence by choosing correct alternative.

5 M

i) TCA cycle is type of pathway.

- a) Catabolic b) Anabolic c) Amphibolic d) Reductive

ii) In EMP pathway, net gain of ATP by substrate level phosphorylation is.....

- a) 2 b) 8 c) 30 d) 38

iii) Is responsible to drive ATP synthesis via ETC.

- a) Chemical gradient b) Electrical gradient
c) Electrochemical gradient d) Photochemical gradient

iv) Standard free energy change is denoted by.....

- a) G b) ΔG c) G° d) ΔG°

v) Chlorophyll with central Mg atom is called.....

- a) Ferredoxin b) Plastocyanin c) Pheophytin d) Bacteriochlorophyll

Que. 2. Describe in detail various steps involved in TCA cycle.

10M

OR

Que. 2. Explain catabolism of glucose by EMP pathway.

10M

Que. 3. Attempt any two.

10M

- i) ATP structure
ii) Cyclic photophosphorylation in purple bacteria
iii) Substrate level phosphorylation



Shri Swami Vivekanand Shikshan Sanstha's
Vivekanand College, Kolhapur (Autonomous)

Department of Microbiology

Academic year 2018-2019


B.Sc II

Notice

Date: 25/07/2018

All the students of B.Sc. II Microbiology are hereby informed that, the unit test of Paper VI Unit III is scheduled on 02/08/2018 at 1.30 p.m. Students should be present on time. Unit test is mandatory to all students.




V.V. Misal
Incharge Head
Department Of Microbiology
Vivekanand College, Kolhapur.
(Autonomous)

Vivekanand College, Kolhapur

Department of Microbiology

B.Sc.II (2018-19)

Paper VI

Test- Unit III

Date: 02-08-2018

Time: 1.30-2.30 pm.

Marks- 25

Qu.1. Rewrite the sentence by choosing correct alternative. 5M

i) During artificial transformation is used to neutralize the charge on DNA molecule.

A) Mg^{2+} b) Spermidine c) $CaCl_2$ d) All of above

ii) In mechanism of recombination, source of donor DNA is a bacteriophage.

a) Specialized transduction b) Generalized transduction

c) Sexduction d) Transfection

iii) ϕ 80 phage, during transduction can transfer gene.

a) Biotin b) Tryptophan

c) Galactose d) None of these

iv) is responsible for giving maleness to the cell.

a) F factor b) Pilus

c) Plasmid d) DNA binding protein

v) The cell in which F factor integrates in chromosome is called.....

a) Lysogen b) Competent c) Abortive d) Hfr

Que. 2. Define transduction. Explain the method with special reference to specialized transduction. 10M

Que. 3. Write short note on (Any 2) 10M

i) Sexduction

ii) Fate of exogenote

ii) Transformation in *Haemophilus influenza*



Vivekanand College, Kolhapur

Department of Microbiology

B.Sc. II (2018-19)

TEST RESULTS

Sr. No.	Name of Student	Roll No.	Unit III(VI) Marks 25 (02/08/201/8)	Unit III(V) Marks 25 20/10/2018
1	ANUSE NEHA NANDKISHOR	8330	13	18
2	ATHALE ISHA ANIKET	8331	17	18
3	BAND MANSI YASHWANT	8332	14	Absent
4	BANDGAR ROHINI SURESH	8333	09	Absent
5	BHAGWAT PRATHAMESH BHAGAWANTSINH	8334	Absent	Absent
6	CHOUGULE PRERNA RAJU	8335	Absent	Absent
7	GARANDE PRERANA VISHNU	8336	20	21
8	GHOSALKAR PRAJAKTA PRABHAKAR	8337	Absent	Absent
9	GIRI BHAGYASHREE SURESH	8338	Absent	Absent
10	JADHAV PREETI SHIVAJI	8339	Absent	Absent
11	JANGAM AMRUTA ASHOK	8340	12	17
12	KAMBLE PRATIKSHA GANESH	8341	Absent	Absent
13	KATAWARE SHRADHA SUDHAKAR	8342	Absent	Absent
14	KENDRE SHRINIVAS VASANTRAO	8343	Absent	Absent
15	KOTHALIKAR POOJA ANANDA	8344	17	19
16	MUDHALKAR YOGITA BALKRISHNA	8345	Absent	Absent
17	MUJAWAR AYANALI DASTAGIR	8346	Absent	Absent
18	NIKALJE POOJA FULCHAND	8347	17	17
19	PATIL AARATI PANDURANG	8348	15	Absent
20	PATIL ANIKET AKARAM	8349	Absent	Absent
21	PATIL PRAJAKTA PRAKASH	8350	Absent	Absent
22	PATIL PRATIBHA PUSHKARAJ	8351	19	Absent
23	PATIL PRATIKSHA ANIL	8352	Absent	Absent
24	PATIL SNEHAL SUDHAKAR	8353	Absent	Absent
25	RAJADNYA CHAITANYA MILIND	8354	Absent	Absent
26	SANGVADEKAR NIRANJANDAS ANAND	8355	Absent	Absent
27	SHINDE HARSHADA SAMBAJI	8356	Absent	Absent
29	SHINGE AASHUTOSH JAYAWANT	8357	Absent	Absent
30	VIBHUTE VAIBHAVI GIRISH	8358	Absent	Absent
31	CHODHARI RUTUJA DILEEP	8308	Absent	Absent
32	JADHAV AISHWARYA AJITKUMAR	8312	18	16



**Shri Swami Vivekanand Shikshan Sanstha's
Vivekanand College, Kolhapur (Autonomous)
Department of Microbiology
Academic year 2018-2019**


B.Sc III

Notice

Date: 01/02/2019

All the students of B.Sc. III Microbiology are hereby informed that, the unit test of Paper XIII-Microbial Genetics- Unit II is scheduled on 11/02/2019 at 3.30 p.m. Students should be present on time. Unit test is mandatory to all students.




V.V. Misal
Incharge Head
Department Of Microbiology
Vivekanand College, Kolhapur.
(Autonomous)

Vivekanand College, Kolhapur
Department of Microbiology
B.Sc.III (2018-19)
Paper XIII- Microbial Genetics
UNIT TEST- Unit II

Marks: 30

Time: 3.30-5.00pm

Date-11-02-2019

Que. 1 Rewrite the sentence by choosing correct alternative.

6

- i) Incorporation of into mRNA can results in suppression of nonsense mutation.
- a) Streptomycin b) Lysine c) 5-Flurouracil d) 2-aminopurines
- ii) In non-permissive condition, the conditional mutation is.....
- a) Suppressed b) Restricted c) Expressed d) Partially expressed
- iii) The end of phenotypic lag is an indicator of formation of
- a) Homopolymer b) Homocarryon c) Heterocarryon d) Heteropolymer
- iv) Selection of auxotrophic mutants is based on
- a) Relative growth b) Visual detection c) Relative survival d) Visual growth
- v) brings about non-genetic suppressor mutations.
- a) 5-Flurouracil b) 5-Bromouracil c) Acridine orange d) Alkyalting agents
- vi) Mutations that are harmful under non-permissive conditions and non-harmful under permissive conditions are called.....
- a) Conditional mutations b) Suppressor mutations
- c) Phenotypic suppressor mutations d) conditional lethal mutations

Que. 2. i) Define conditional mutation. Discuss conditional expression of mutation with suitable examples.

8

ii) Describe genetic and non-genetic suppressor mutations with suitable examples.

8

Que. 3 Attempt any two

8

- i) Visual detection technique
- ii) Phenotypic lag
- iii) Selection of mutants based on relative growth



Vivekanand College, Kolhapur
Department of Microbiology
B.Sc. III (2018-19)
Paper XIII

RESULT:

Sr. No	Name of Student	Roll No.	UNIT I (20Marks)	UNIT II (30 Marks)
1	Bansode Dhairyashil Amrapal	8788	11	Absent
2	Bhosale Sunita Dinkar	8799	12	24
3	Bornake Nayan Sunil	8798	Absent	Absent
4	Chavan Sonal Ashwin	8794	Absent	Absent
5	Chopade Pratik Prabhakar	8787	13	Absent
6	Ghatage Supriya Shivaji	8801	Absent	Absent
7	Gosavi Payal Jagdish	8790	14	23
8	Jong Arati Ashok	8791	08	Absent
9	Kalyankar Susmita Sambhaji	8784	10	Absent
10	Kamble Akshata Sandesh	8804	11	14
11	Koli Aarti Appaso	8807	13	Absent
12	Mestri Anjum Imtiyaj	8803	15	25
13	Mhetri Aniket Sukumar	8789	08	Absent
14	Naik Antara Vinod	8796	Absent	Absent
15	Parmanandani Priya Mahesh	8785	Absent	Absent
16	Parte Prajakta Shamrao	8805	11	Absent
17	Patil Apeksha Dattatray	8802	Absent	Absent
18	Patil Asmita Maruti	8783	09	Absent
19	Patil Mahesh Sitaram	8800	Absent	Absent
20	Patil Shraddha Tanaji	8810	13	20
21	Patil Varsharani Namdev	8793	15	Absent
22	Shelar Ankita Ashok	8795	08	Absent
23	Shinde Vishal Dilip	8786	15	19
24	Tiwari Priyanka Rajdhar	8806	13	Absent
25	Toraskar Nayan Mahadev	8797	17	Absent
26	Vadar Pratiksha Dilip	8792	14	19
27	Vibhute Girish Balkrishna	8808	14	Absent
28	Sathe Sujata Bhikaji	8809	Absent	Absent



**Shri Swami Vivekanand Shikshan Sanstha's
Vivekanand College, Kolhapur (Autonomous)
Department of Microbiology
Academic year 2018-2019**

B.Sc III

Notice

Date: 12/01/2019

All the students of B.Sc. III Microbiology are hereby informed that, the unit test of Paper XIII-Microbial Genetics- Unit I is scheduled on 24/01/2019 at 3.30 p.m. Students should be present on time. Unit test is mandatory to all students.



V.V.Misal
Incharge Head
Department Of Microbiology
Vivekanand College, Kolhapur.
(Autonomous)

Vivekanand College, Kolhapur
Department of Microbiology
B.Sc.III (2018-19)
Paper XIII- Microbial Genetics
UNIT TEST- Unit I

Marks: 20

Time: 3.30-4.30pm

Date-24-01-2019

Que. 1. Define operon. Describe in detail regulation of Tryptophan operon. 8

Que.2 Write short note on- 12

- a) One cistron one polypeptide hypothesis
- b) Folded fibre model
- c) Pribnow Box



B.Sc. III MICROBIOLOGY
Paper XIII- Microbial Genetics

Unit I test
(2018-19)

Marks: 20

Time: 3.30-4.30pm

Date- 24-01-2019

Sr. No.	Name of Student	Roll no.	Signature
1	Bansode Dhairyashil Amrapal	8788	<i>Dhairyashil</i>
2	Bhosale Sunita Dinkar	8799	<i>Sunita</i>
3	Bornake Nayan Sunil	8798	<i>Bornake</i>
4	Chavan Sonal Ashwin	8794	<i>Ab</i>
5	Chopade Pratik Prabhakar	8787	<i>Chopade</i>
6	Ghatage Supriya Shivaji	8801	<i>Ab</i>
7	Gosavi Payal Jagdish	8790	<i>Payal</i>
8	Jong Arati Ashok	8791	<i>Ab</i>
9	Kalyankar Susmita Sambhaji	8784	<i>Kalyankar</i>
10	Kamble Akshata Sandesh	8804	<i>A.S.Kamble</i>
11	Koli Aarti Appaso	8807	<i>Ab</i>
12	Mestri Anjum Intiyaj	8803	<i>Anjum</i>
13	Mhetri Aniket Sukumar	8789	<i>Aniket</i>
14	Naik Antara Vinod	8796	<i>Ab</i>
15	Parmanandani Priya Mahesh	8785	<i>Ab</i>
16	Parte Prajakta Shamrao	8805	<i>Ab</i>
17	Patil Apeksha Dattatray	8802	<i>Ab</i>
18	Patil Asmita Maruti	8783	<i>Patil</i>
19	Patil Mahesh Sitaram	8800	<i>Ab</i>
20	Patil Shraddha Tanaji	8810	<i>Patil</i>
21	Patil Varsharani Namdev	8793	<i>Patil</i>
22	Shelar Ankita Ashok	8795	<i>Aashulae</i>
23	Shinde Vishal Dilip	8786	<i>Shinde</i>
24	Tiwari Priyanka Rajdhar	8806	<i>Tiwari</i>
25	Toraskar Nayan Mahadev	8797	<i>MM</i>
26	Vadar Pratiksha Dilip	8792	<i>Vadar</i>
27	Vibhute Girish Balkrishna	8808	<i>Girish</i>
28	Sathe Sujata Bhikaji	8809	<i>Ab</i>

