

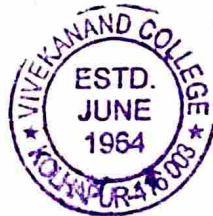
**Vivekanand College (Autonomous), Kolhapur**


**Department of Microbiology**

**Notice of the UNIT Test**

**Date: 28<sup>th</sup> July., 2019**

All the students of B. Sc. III Microbiology, Vivekanand College (Autonomous), Kolhapur are hereby informed that the third unit test is scheduled on 8th. Aug. 2019 at 2 pm. in the microbiology department. Please make it convenient to be present on time.



  
**HEAD**  
DEPARTMENT OF MICROBIOLOGY  
VIVEKANAND COLLEGE, KOLHAPUR  
(AUTONOMOUS)

Vivekanand College, Kolhapur

Department of microbiology

B.Sc III Unit Test II (microbial biochemistry)

Date-1/8/2019

Marks- 25

**Q.1. choose the correct alternative from the following & rewrite the sentence.**

1. The credit of studying the beta galactosidase system in *E. coli* goes to .....

- a) J. Monad      b) F. jacob      c) Crick      d) J. Monad & F. jacob

2. The enzyme having the same catalytic function but different molecular weight or structure or  $K_m$  are called as .....

- a) Allosteric enzyme    b) Isozymes    c) Ribozymes    d) Coenzyme

3. Co-operative binding of substrate is a feature of .....

- a) Isoenzymes    b) Ribozymes    c) Allosteric enzymes    d) zymogen

4. .... play an important role in catabolite repression.

- a) c-GMP    b) c-AMP    c) GTP    d) ATP

5.  $V_o = \frac{V_{max} [S]}{K_m + [S]}$

- a)  $K_m [S]$     b)  $V_{max} [S]$     c)  $V_{max} [S]$     d)  $V_{max}$

**Q.2. Long answer question. (any one )**

**10 marks**

1. Discuss the organization & regulation of lac operon.

2. Derive M-M equation with significance of  $K_m$ .

**Q.3. Short Note . (any two)**

**10 marks**

1. Lineweaver Burk plot

2. Catabolite repression

3. Covalent catalysis

4. Isozyme



# Vivekanand College, Kolhapur

Department of Microbiology

B.Sc.III (2019-2020)

Unit Test-II

Microbial Biochemistry

Date- 11/8/19

Time-

Sr.No.	Name of Student	Signature	Marks out of 20
1	ANUSE NEHA NANDKISHOR	N Anuse	16
2	ATHALE ISHA ANIKET	Isha	15
3	BAND MANSI YASHWANT	Ab	Ab
4	BANDGAR ROHINI SURESH	Rbandgar	9
5	BHAGWAT PRATHAMESH BHAGAWANTSINH	Ab	Ab
6	CHOUGULE PRERNA RAJU	Ab	Ab
7	GARANDE PRERANA VISHNU	Prerana	13
8	GHOSALKAR PRAJAKTA PRABHAKAR	Ab	Ab
9	GIRI BHAGYASHREE SURESH	(S) Bhagya	13
10	JADHAV PREETI SHIVAJI	Pradman	13
11	JANGAM AMRUTA ASHOK	Amrutan	10
12	KAMBLE PRATIKSHA GANESH	Pratiksha	18
13	KATAWARE SHRADHA SUDHAKAR	Shradha	11
14	KENDRE SHRINIVA VASANTRAO	Ab	Ab
15	KOTHALIKAR POOJA ANANDA	PAK	10
16	MUDLKAR YOGITA BALKRISHNA	Ab	Ab
17	MUJAWAR AYANALI DASTAGIR	Ayanali	7
18	NIKALJE POOJA FULCHAND	Nikalje	12
19	PATIL AARATI PANDURANG	Ab	Ab
20	PATIL ANIKET AKARAM	Anipati	13
21	PATIL PRAJAKTA PRAKASH	Prati	16
22	PATIL PRATIBHA PUSHKARAJ	Pratibi	09
23	PATIL PRATIKSHA ANIL	Ab	Ab
24	PATIL SNEHAL SUDHAKAR	Snehal	05
25	RAJADNYA CHAITANYA MILIND	Rajadnya	10
26	SHINDE HARSHADA SAMBAJI	Ab	Ab
27	SHINGE AASHUTOSH JAYAWANT	Aashutosh	11
28	VIBHUTE VAIBHAVI GIRISH	Vibhute	11
29	CHOUDHARI RUTUJA DILEEP	Rutuja	15
30	JADHAV AISHWARYA AJITKUMAR	Aishwarya	18
31	MITAKE PRADNYA SHAMRAO	Pradnya	15



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

**Department of Microbiology**

**Academic year 2019-20**

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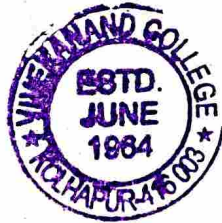
**B.Sc III**

**Notice**

Date: 25/05/2020

All the students of B.Sc. III Microbiology are hereby informed that, the online unit test of Microbial Genetics is scheduled on 04/06/2020 at 10.00 a.m. Please make it convenient to be submit the test on time.

Link will be provided on the day of test.



V.V. Misal

**HEAD**  
DEPARTMENT OF MICROBIOLOGY  
VIVEKANAND COLLEGE, KOLHAPUR  
(AUTONOMOUS)



# B.Sc. III Microbiology

\*Required

1. Enter name \*

---

2. Enter class \*

---

3. Enter roll number \*

---

Multiple choice  
questions

Select most correct alternative from given alternatives.  
20 Marks

4. A transposon..... \*

1 point

*Mark only one oval.*

- is referred to as a jumping gene
- is DNA that can remove itself from the chromosome and insert elsewhere
- can cause insertional inactivation of genes
- All of above

One:



20) Refrigerator

5. A collection of DNA made from all mRNA's of an organisms constitutes..... \*

1 point

Mark only one oval.

- mRNA repository
- DNA library
- cDNA library
- Genomic library

6. In PCR technique, temperature required by Taq polymerase for polymerization is.....degree celcius. \*

1 point

Mark only one oval.

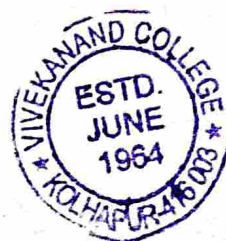
- 72
- 54
- 94
- 37

7. The short stretches of DNA used to identify complementary sequence in sample is called..... \*

1 point

Mark only one oval.

- Probes
- Primer
- Markers
- VNTR



8. In pBR 322 plasmid, the Tetracycline resistant gene is obtained from..... natural plasmid. \*

1 point

Mark only one oval.

- pSC 101
- RSF 2124
- pMB1
- pUC 19

9. DNA finger printing technique depends upon..... \*

1 point

Mark only one oval.

- Difference in pattern of genes
- Difference in pattern of tandem repeats
- Difference in sequence of DNA
- Difference in order of genes

10. In Sanger's DNA sequencing method, the dNTP's and ddNTP's are used in the ratio of..... \*

1 point

Mark only one oval.

- 10:1
- 1:10
- 1:1
- 1:100



11. The Agrobacterium mediated transfer method is used for transfer of rDNA in..... \*

1 point

*Mark only one oval.*

- Fungus  
 Animals  
 Plants  
 Animal tissue culture

12. The term 'cistron' was coined by..... \*

1 point

*Mark only one oval.*

- Seymour Benzer  
 Edward Lewis  
 Barbara MacClintock  
 Werner Arber

13. The DNA sequences that contain antibiotic resistant or toxin producing gene flanked by IS elements are called..... \*

1 point

*Mark only one oval.*

- Simple transposons  
 Composite transposons  
 IS elements  
 Bacteriophage elements





17. The process of binding of primer to the denatured DNA strand is called.....

1 point

Mark only one oval.

- Denaturation
- Annealing
- Renaturation
- Elongation

18. During formation of rDNA ..... enzyme is used to remove 5-phosphate group from DNA, RNA to prevent its recircularization. \*

1 point

Mark only one oval.

- S1 nuclease
- Alkaline phosphatase
- Terminal transferase
- Polynucleotide kinase

19. The toxic activity of *Paramecium aurelia* is due to cytoplasmic inheritance..... \*

1 point

Mark only one oval.

- Caedogaster conjugatus*
- Caedogaster minutus*
- Caedogaster teniospiralis*
- Caedogaster solus*

20. DNA fingerprinting technique was developed by.....\*

1 point

Mark only one option.

Karry M

F. Sant

Alec J

J. Wat

21. .... vector contains Lambda cos site, other genes of Lambda lytic cycle and phage tail

1 point

Mark only one option.

Cosmi

Lambda phage vector

Phage

Lambda replacement vector

22. All of the following are thermostable polymerases except.....\*

1 point

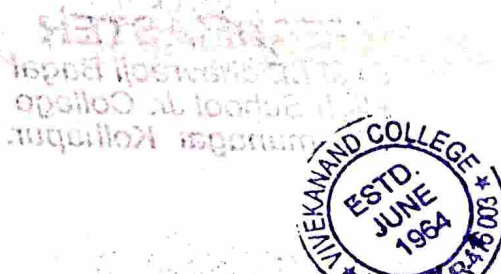
Mark only one option.

Taq polymerase

Vent polymerase

pfu polymerase

DNA polymerase III



23. The uptake of plasmid DNA into bacterial cell is facilitated in the presence of..... 1 point

Mark only one

- Magnesium chloride
- Calcium chloride
- Potassium chloride
- Ammonium sulfate

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Google Forms



**Vivekanand College (Autonomous), Kolhapur**  
**Department of Microbiology**  
**B.Sc.III Test**

Timestamp	Score	Enter name	Enter class	Enter roll number
04/06/2020 11:00:36	15 / 20	Mitake Pradnya Shamrao	Bsc III	8336
04/06/2020 11:06:59	5 / 20	Pooja	Bsc3	8304
04/06/2020 11:14:11	13 / 20	Patil Pratibha Pushkaraj	B.Sc III	8321
04/06/2020 11:14:14	5 / 20	Pooja jadhav	Bsc3	8311
04/06/2020 11:22:51	5 / 20	Aishwarya	Bsc3	8311
04/06/2020 11:46:46	17 / 20	Pooja Ananda Kothalikar	Bsc 3	8317
04/06/2020 11:48:05	15 / 20	aarti pandurang patil	bsc ty	8316
04/06/2020 11:52:58	17 / 20	Snehal patil	Bsc 3	8331
04/06/2020 12:02:01	17 / 20	Prerna Garande	T.Y.B.Sc.	8328
04/06/2020 12:07:31	18 / 20	Neha Nandkishor Anuse.	B.sc-3	8323
04/06/2020 13:04:09	12 / 20	Harshada sambhaji shinde	Bsc 3	8335
04/06/2020 13:37:00	20 / 20	Bhagyashree suresh giri	Bsc microbiology ty	8309
04/06/2020 13:37:13	20 / 20	preeti jadhav	Bsc3	8327
04/06/2020 13:37:17	20 / 20	Shradha Sudhakar Kataware	BSc 3 Microbiology	8332
04/06/2020 17:34:47	13 / 20	Mansi Yashwant Band	TY bsc microbiology	8324
04/06/2020 18:04:35	9 / 20	Amruta Ashok Jangam	Bsc 3	8314
04/06/2020 18:06:29	17 / 20	Aishwarya jadhav	Bsc 3	8318
04/06/2020 18:36:46	16 / 20	Yogita Balkrishna Mudalkar.	Bsc.3	8326
04/06/2020 18:49:41	16 / 20	Prathamesh Bhagwat	B.Sc. 3	8322
04/06/2020 18:50:39	16 / 20	ANIKET AKARAM PATIL	Bsc 3	8325
04/06/2020 18:50:48	18 / 20	Ayan Dastagir Mujawar	BSC 3rd	8320
04/06/2020 18:50:49	16 / 20	Shrinivas vasantrao kendre	Bsc3	8306
04/06/2020 18:51:17	17 / 20	Aashutosh Jaywant Shinge	Bsc.3rd Micro	8314
04/06/2020 18:57:43	16 / 20	Aashutosh Jaywant Shinge	Bsc.3rd Micro	8314
04/06/2020 19:04:07	16 / 20	Aashutosh Jaywant Shinge	Bsc.3rd Micro	8314





04/06/2020 20:14:24	20 / 20	Rutuja choudhari	Bsc 3	
04/06/2020 20:24:02	19 / 20	Prajakta Prakash Patil	Bsc III my microbiology	8312
04/06/2020 21:11:58	8 / 20	Vaibhavi Girish Vibhute	Bsc 3 microbiology	8315
04/06/2020 21:16:37	16 / 20	Rohini Suresh Bandgar	Bsc3	8333
04/06/2020 22:11:13	7 / 20	prajakta prabhakar ghosalkar	b.sc.3 microbiology	8334
03/09/2020 14:56:25	19 / 20	q	bsc 3	8311
20/09/2020 17:28:14	18 / 20	Patil Pratibha Pushkaraj	Bsc III	19
27/09/2020 14:39:34	8 / 20	Prerana Raju Chougule	Bsc	8321
01/10/2020 23:45:13	6 / 20	Prajakta ghosalkar	B sc	8330
05/10/2020 11:58:53	8 / 20	Amruta Ashok jangam	Bsc 3	8311
12/10/2020 15:10:24	18 / 20	Pratibha patil		8313
16/10/2020 13:48:10	9 / 20	Shree	Bsc	8321
16/10/2020 15:05:33	8 / 20	preeti	bsc	8321
17/10/2020 11:48:03	6 / 20	ABC	Bsc3	12
17/10/2020 12:23:54	5 / 20	Vaibhavi Girish Vibhute	Bsc 3	3456
19/10/2020 12:39:39	5 / 20	Shradha	3rd	789
19/10/2020 20:26:33	19 / 20	Shreee	Bsc	8333
19/10/2020 22:24:37	8 / 20	Pooja Nikalje	Bsc III	312
20/10/2020 08:45:38	18 / 20	Hsimsog	Tgsk	11
20/10/2020 11:17:52	19 / 20	Prerna	Ty B.Sc Microbiology	8307
20/10/2020 13:00:53	20 / 20	Bhagyashree	Bsc	5820
20/10/2020 17:16:48	9 / 20	Yogita Balkrishna Mudalkar.	Bsc3	8328
28/10/2020 19:13:09	19 / 20	Prerna	Ty B.Sc Microbiology	6666
28/10/2020 19:35:27	15 / 20	Yogita Balkrishna Mudalkar.	Bsc3	8326
29/10/2020 07:38:58	20 / 20	Hduvk	Urgi	8328
				8326
				2739



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

**Department of Microbiology**

**Academic year 2019-20**

---

B.Sc II


Notice

Date: 12/05/2020

All the students of B.Sc.II Microbiology are hereby informed that, the online unit test of Immunology is scheduled on 22/05/2020 at 10.00 a.m. Please make it convenient to be submit the test on time.

Link will be provided on the day of test.



  
V.V.Misal  
**HEAD**  
DEPARTMENT OF MICROBIOLOGY  
VIVEKANAND COLLEGE, KOLHAPUR  
(AUTONOMOUS)

# B. Sc. II Microbiology

\*Required

1. Enter your name \*

\_\_\_\_\_

2. Enter your class \*

\_\_\_\_\_

3. Enter your roll number \*

\_\_\_\_\_

4. Date \*

Example: 7 January 2019

Multiple choice questions

Select most correct alternative from given alternatives. **20**  
Marks

5. The ABO blood group antigens are..... \*

1 point

Mark only one oval.

- Auto antigens
- Heterophile antigens
- Histocompatibility antigens
- Iso antigens





6. .... is a antiviral agent, which is a part of second line of defense and inhibits viral replication. \* 1 point

Mark only one oval.

- Lysozyme
- Properdin
- Interferon
- Bacteriocin

7. The total resistance shown by all members of a species to a pathogen is known as.....immunity. \* 1 point

Mark only one oval.

- Racial
- Individual
- Species
- Specific

8. A fever is defined as an increase in oral temperature of..... or rectal temperature about..... \* 1 point

Mark only one oval.

- 98.6 C and 99.5 C
- 99.4 C and 99.6 C
- 98.5 C and 99.6 C
- 98.8 C and 99.5 C





9. Human leukocyte antigen (HLA) is an example of..... antigen. \*

1 point

Mark only one oval.

- Heterophile
- Histocompatibility
- Auto
- Iso

10. Antibodies are chemically..... \*

1 point

Mark only one oval.

- Proteins
- lipoproteins
- Carbohydrates
- Glycoproteins

11. During inflammation, activation of mast cells requires..... \*

1 point

Mark only one oval.

- Decreased pH
- Binding of Bradikinin to mast cells
- Binding of Bradikinin to capillary receptors
- Increased permeability of mast cells

12. The macrophages those are found in brain are called..... \*

1 point

Mark only one oval.

- Giant cells
- Kupffer cells
- Alveolar macrophages
- Microglia



13. The transfer of immunity from donor to an recipient by transferring antibodies is known as..... \*

1 point

Mark only one oval.

- Artificial active immunity  
 Natural active immunity  
 Artificial passive immunity  
 Natural passive immunity

14. The pooled sera refers to..... \*

1 point

Mark only one oval.

- Serum prepared by injecting animal with toxoids  
 Serum from healthy adults  
 Serum from person recovering after infectious disease  
 Serum prepared by injecting human with antigens

15. .... antibodies are also known as "reagin antibodies". \*

1 point

Mark only one oval.

- Ig E  
 Ig G  
 Ig M  
 Ig D

16. .... of the following is not a commensal of skin. \*

1 point

Mark only one oval.

- Staph. aureus  
 Propionibacterium acne  
 Candida albicans  
 Staph. epidermidis



17. The number of antigenic determinants per molecule of antigen is referred to as..... \* 1 point

Mark only one oval.

- Total valency  
 Absolute valency  
 Functional valency  
 None of these

18. .... of the following is not a pyrogen. \* 1 point

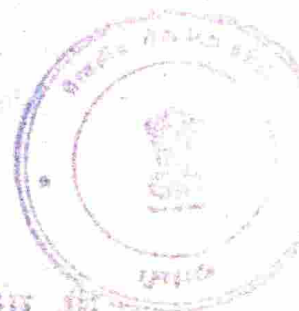
Mark only one oval.

- IL-1  
 IL-6  
 Tissue necrotic factor  
 Complement system

19. The antigen which exists on the surface of cells of unrelated plants, animals and bacteria but are identical and can cross react with others is..... \* 1 point

Mark only one oval.

- Iso antigen  
 Heterophile antigen  
 Auto antigen  
 Histocompatibility antigen



20. According to ..... theory, antibodies are formed during embryonic life. \* 1 point

*Mark only one oval.*

- Natural selection
- Side chain
- Clonal selection
- Direct template

21. In the structure of antibodies, carbohydrate moieties are associated with..... \* 1 point

*Mark only one oval.*

- Constant region of Heavy chain
- Variable region of heavy chain
- Constant region of light chain
- Variable region of light chain

22. .... is not a phagocytic cell. \* 1 point

*Mark only one oval.*

- Monocyte
- Macrophage
- Polymorpho nuclear leukocyte
- B cell





23. Eye lens protein is an example of.....antigen. \*

1 point

Mark only one oval.

- Auto
- Iso
- Heterophile
- Histocompatibility

24. .... is the earliest antibody synthesized by the fetus. \*

1 point

Mark only one oval.

- Ig G
- Ig M
- Ig D
- Ig A

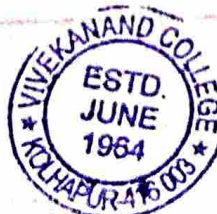
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Google Forms



**Vivekanand College (Autonomous), Kolhapur**  
**Department of Microbiology**  
**B.Sc.II Test**

Timestamp	Score	Enter your name	Enter your class	Enter your roll number
22/05/2020 10:54:54	13 / 20	Manasi Anil Havale	2	7662
22/05/2020 10:58:05	20 / 20	Manasi Anil Havale	2	7662
22/05/2020 11:09:53	19 / 20	Krutika rajendra koli	S.Y.B.Sc.	7668
22/05/2020 11:26:18	9 / 20	Priyanka Humbe	2	7664
22/05/2020 11:28:59	13 / 20	Vaishnavi vyankatesh patil	Bsc 2	7681
22/05/2020 11:34:40	16 / 20	Prajakta Gurav	Bsc 2nd	7661
22/05/2020 11:43:36	19 / 20	Arundhati Avinash Kamble	Bsc 2	7666
22/05/2020 11:57:36	12 / 20	Shital Krushnat Malap	2	7671
22/05/2020 12:00:08	18 / 20	Sayali shankar chavan	Bsc 2	7659
22/05/2020 12:00:08	18 / 20	Anushka Dhanaji Patil	Bsc 2	7678
22/05/2020 12:02:59	19 / 20	Ravina kiran powar	Bsc2	7683
22/05/2020 12:03:09	20 / 20	Nilam Ananda Varute	Bsc.-SY	7689
22/05/2020 12:04:19	19 / 20	Nita Powar	Bsc 2	7682
22/05/2020 12:08:01	9 / 20	Vaishnavi milind patil	Bsc 2nd year	7680
22/05/2020 12:30:24	11 / 20	Shreya sunil Sutar	Bsc 2nd	7685
22/05/2020 12:47:01	19 / 20	Monica Sutar	2	7604
22/05/2020 13:27:14	18 / 20	Akshata Patil	B.Sc2	7677
22/05/2020 13:35:38	13 / 20	Pratiksha	Bsc 2	7670
22/05/2020 13:45:00	18 / 20	Shraddha prakash more	Bsc-2	7673
22/05/2020 15:21:22	18 / 20	Shweta Vishnu Thanekar	2	7687
22/05/2020 15:27:59	20 / 20	Supriya Ananda Lad	BSc2	7669
22/05/2020 15:29:27	14 / 20	Rajashri Prakash Patil	B.sc 2	7679
22/05/2020 15:34:57	19 / 20	Rajashri Prakash Patil	B.sc. 2	7679
22/05/2020 17:57:50	20 / 20	Tejaswini Subhash Shinde	B.sc2	7684
22/05/2020 18:51:35	19 / 20	Fiza aftab Naikwadi	2	7675





SOCIAL REPERATION NAME

22/05/2020 18:54:58	17 / 20	Srushti Pandurang Angre	Bsc- 2	7657
22/05/2020 18:57:03	19 / 20	Nikita Dilip More	Bsc 2	7672
22/05/2020 18:57:26	14 / 20	Abhay Bajirao Patil	BSc 2	7676
22/05/2020 19:01:15	19 / 20	Abhay Bajirao Patil	Bsc 2	7676
22/05/2020 19:22:14	20 / 20	Sayali tukaram torase	BSc2	7688
22/05/2020 20:04:36	20 / 20	Rohan Jadhav	Bsc 2	7665
22/05/2020 20:39:49	3 / 20	Ruchitha khairmode	Bsc2	7667
22/05/2020 20:46:31	17 / 20	Ruchitha khairmode	Bsc2	7667
25/05/2020 20:29:50	15 / 20	Omkar Shashikant Chougale	B. Sc-2	7660
25/05/2020 20:29:51	16 / 20	Rameshwar munde	Bsc 2	7674
26/05/2020 13:19:08	16 / 20	Shruti Umesh ayare	Bsc 2	7658



Original	Witness the Copy	Witness the Copy
Original	Witness the Copy	Witness the Copy
Original	Witness the Copy	Witness the Copy
Original	Witness the Copy	Witness the Copy

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

Department of Microbiology

Academic year 2019-20

---

B.Sc I

Notice

Date: 01/05/2020

All the students of B.Sc. I Microbiology are hereby informed that, the online unit test of Biochemistry is scheduled on 08/05/2020 at 2.00 p.m. Please make it convenient to be submit the test on time.

Link will be provided on the day of test.

V.V.Misal

**HEAD**  
DEPARTMENT OF MICROBIOLOGY  
VIVEKANAND COLLEGE, KOLHAPUR  
(AUTONOMOUS)





# B.sc.I online exam

Date - 08-05-2020

\* Required

1. Enter your name \*

---

2. Enter your roll no

---

3. Enter your email

---

## Biochemistry

4. --- is energy storage polysaccharide in animals.

1 point

*Mark only one oval.*

Glycogen

Starch

Cellulose

Fructose

5. In lipids fatty acids are joined to alcohol by

1 point

*Mark only one oval.*

Peptide bond

Glycosidic bond

Ester bond

Phosphodiester bond



induced fit hypothesis of enzyme substrate binding was proposed by

1 point

Mark only one oval.

- Pasteur
- Watson and Crick
- Fisher
- Koshland

7. ----- is an example of aromatic amino acid

1 point

Mark only one oval.

- Phenylalanine
- Proline
- Alanine
- Cysteine

8. The non protein organic part attached noncovalently to protein part is called

1 point

Mark only one oval.

- Apoenzyme
- Prosthetic group
- Cofactor
- Coenzyme

9. Primary structure of protein is stabilized by

1 point

Mark only one oval.

- Covalent bond
- Ester bond
- Hydrophobic interactions
- Van der Waals interactions



Protein with multiple subunits shows

1 point

Mark only one oval.

- Primary structure
- Secondary structure
- Tertiary structure
- Quaternary structure

11. ----- is called helix breaker.

1 point

Mark only one oval.

- Proline
- Phenylalanine
- Alanine
- Arginine

12. In silk fiber ---- secondary structure is present.

1 point

Mark only one oval.

- Parallel beta pleated sheets
- Alpha helix
- Alpha turns
- Antiparallel beta pleated sheets

13. ----- is structural polysaccharide found in plant cell wall

1 point

Mark only one oval.

- Glycogen
- Starch
- Cellulose
- Peptidoglycane



----- are not polymeric substances

1 point

Mark only one oval.

- Lipids  
 DNA  
 RNA  
 Protein

15. Nucleotides is formed by joining nitrogen base with ---

1 point

Mark only one oval.

- Sugar  
 Phosphate  
 Sugar and phosphate  
 None of these

16. ----- is involved in transfer of amino acid during the process of protein synthesis

1 point

Mark only one oval.

- t RNA  
 r RNA  
 m RNA  
 DNA

17. ----- bond connect sugar molecules.

1 point

Mark only one oval.

- Glycosidic  
 Phosphodiester  
 Ester  
 Peptide





Anticodon are found on

1 point

Mark only one oval.

- t RNA  
 r RNA  
 m RNA  
 DNA

19. Starch consist of D - glucose units joined by ---

1 point

Mark only one oval.

- Alpha 1-4 linkage  
 Beta 1-4 linkage  
 All of above  
 None of above

20. The nitrogen base which is absent in DNA ----

1 point

Mark only one oval.

- Adenine  
 Guanine  
 Uracil  
 Thymine

21. The enzymes which are product of housekeeping genes ----

1 point

Mark only one oval.

- Constitutive  
 Inducible  
 Intracellular  
 Extracellular



The catalytic site of enzyme is also known as -----

1 point

Mark only one oval.

- Active site
- Action site
- Atomic site
- Analogue site

23. Phosphodiester are characterized by presence of --

1 point

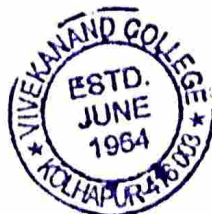
Mark only one oval.

- Phosphate
- Chloride
- Sulphate
- Magnesium

---

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# B.sc.I online exam (Responses)

File Edit View Insert Format Data Tools Form Add-ons Help Last edit was 11 minutes ago

Veda Sunil Sakhalkar

1	A	B	C	D	E
Timestamp	Score	Enter your name	Enter your roll no	Enter your email	
5/7/2020 23:53:31	20 / 20	Vrushali			
5/8/2020 9:06:55	19 / 20	Yash Sandesh Barapatre		7359 yashbarapatre64@gmail.com	
5/8/2020 9:12:01	18 / 20	ASHWINI SHIVAJI KHOT		7369 ashwinikhot2001@gmail.com	
5/8/2020 9:12:26	18 / 20	Prasad Ashok Bandivadekar		7405 pprasadpappu@gmail.com	
5/8/2020 9:14:28	18 / 20	Veda Sunil Sakhalkar		7384 sakhalkarveda1@gmail.com	
5/8/2020 9:22:38	12 / 20	Vinaya Mohan jadhav		7389 vinayajadhav282@gmail.com	
5/8/2020 9:28:59	18 / 20	Vinaya Mohan jadhav		7389 vinayajadhav282@gmail.com	
5/8/2020 9:35:15	17 / 20	Aditi Ajay Jadhav		7412 aditijadhav5911@gmail.com	
5/8/2020 9:50:22	19 / 20	Pranav Shriram Datar		7360 pranav.datarbirds@gmail.com	
5/8/2020 10:29:37	19 / 20	Snehal Dipak Mane		7373 snehaldm662@gmail.com	
5/8/2020 10:30:55	15 / 20	Shaikh saniya		7387 Shaikhrehmatsaniya@gmail.com	
5/8/2020 11:03:59	15 / 20	Saniya Rajvardhan Sawant		7386 saniyasawant64@gmail.com	
5/8/2020 11:35:57	16 / 20	Anagha bannage		7358 Anghabannage@gmail.com	
5/8/2020 11:50:01	16 / 20	Pooja Bandopant Ranamale		7382 Poojaranamale4913@Gmail.com	
5/8/2020 12:48:00	20 / 20	Ruchita Prashant Mahadik		7372 ruchitamahadik2324@gmail.com	
5/8/2020 13:08:41	17 / 20	Pratiksha Prabhakar Pange		7377 Pratikshapange301@gmail.com	
5/8/2020 14:09:53	12 / 20	Siddhi dhananjay salwankar		7385 salwankarsiddhi@gemal.com	
5/8/2020 14:31:13	19 / 20	Sujata Ramashish Dixit		7362 sujatadixit2002@gmail.com	
5/8/2020 14:31:47	20 / 20	Vaishnavi vinayak ghadage		7363 ghadagevaishnavi4@gmail.com	
5/8/2020 14:31:48	14 / 20	Shraddha adinath davang		7361 shrudd2219@gmail.com	

Form Responses 1

Count: 846

Explore









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

**Department of Microbiology**

**Academic year 2019-20**

---

**B.Sc II**


**Notice**

Date: 20/04/2020

All the students of B.Sc. II Microbiology are hereby informed that, the online unit test of Immunology is scheduled on **27/04/2020 at 10.00 a.m.** Please make it convenient to be submit the test on time.

Link will be provided on the day of test.



  
V.V.Misal

**HEAD**  
**DEPARTMENT OF MICROBIOLOGY**  
**VIVEKANAND COLLEGE, KOLHAPUR**  
**(AUTONOMOUS)**

# B. Sc. II Microbiology online test

\*Required

1. Enter your name \*

---

2. Enter your class \*

---

3. Enter your roll number \*

---

Multiple choice  
questions

Select most correct alternative from given alternatives.  
20marks

4. The ability of antigen to stimulate an immune response is known as..... 1 point  
\*

Mark only one oval.

- Immunity
- Immunological specificity
- Antigenicity
- Immunogenicity



5. The viral infection like rubella can be cured by using..... \*

1 point

Mark only one oval.

- Convalescent serum
- Hyper immune serum
- Pooled sera
- Toxoids

6. .... antibody is also known as secretory antibody. \*

1 point

Mark only one oval.

- IgD
- IgE
- IgM
- IgA

7. The concept of phagocytosis was first time given by..... \*

1 point

Mark only one oval.

- Robert Koch
- Ellie Metchnikoff
- Ehrlich
- Joseph Lister

8. The antigens that are found in some but not in all members of a species are known as ..... \*

1 point

Mark only one oval.

- Haptens
- Autoantigens
- Histocompatibility antigens
- Isoantigens



9. During inflammation..... is responsible for increasing permeability of capillary walls. \* 1 point

Mark only one oval.

- Bradikinin
- Heparin
- Phospholipase A2
- Arachidonic acid

10. The substance that is incapable of inducing antibody formation but can react specifically with antibodies is known as..... \* 1 point

Mark only one oval.

- Complete antigen
- Heterophile antigen
- Adjuvant
- Hapten

11. The production of fever is induced by..... \* 1 point

Mark only one oval.

- Interferons
- Interleukins
- Bradikinin
- Histamines





12. According to..... theory, antibody molecule that is complimentary to antigenic determinants are produced by the cell. \* 1 point

Mark only one oval.

- Indirect template
- Direct template
- Side chain
- Natural selection

13. .... antibodies can cross the human placenta. \* 1 point

Mark only one oval.

- IgG
- IgM
- IgA
- IgD

14. Light chain of antibodies is linked to heavy chain by..... bond. \* 1 point

Mark only one oval.

- Hydrogen
- Disulfide
- Peptide
- Phosphodiester



15. .... immunity is developed in response to antigen that enters by natural infections. \* 1 point

Mark only one oval.

- Natural active immunity
- Artificial active immunity
- Natural passive immunity
- Artificial passive immunity

16. .... component present in tears makes eyes free of foreign particles. \* 1 point

Mark only one oval.

- Iron binding proteins
- Lactoferrin
- IgM antibodies
- Properdins

17. Monocytes of blood migrates into the tissues and differentiates into..... 1 point

\*

Mark only one oval.

- Microphages
- Polymorphonuclear leukocytes
- Macrophages
- Neutrophils



18. The first antibody that appears in primary immune response is..... \* 1 point

Mark only one oval.

- IgG
- IgM
- IgE
- IgA

19. The lytic enzymes and bactericidal substances in neutrophils are enclosed within granular structure known as..... \* 1 point

Mark only one oval.

- Phagosomes
- Secondary granules
- Phagolysosomes
- Lysosomes

20. The use of toxoid or vaccine is considered under..... \* 1 point

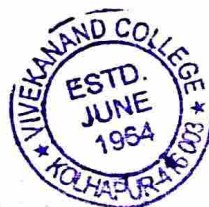
Mark only one oval.

- Natural passive immunity
- Artificial passive immunity
- Natural active immunity
- Artificial active immunity

21. Forssman antigen is an example of..... antigen. \* 1 point

Mark only one oval.

- Iso
- Cross reactive
- Auto
- Histocompatibility



22. The serum component that can bind phagocytic cells and foreign particles to induce phagocytosis is known as... .. \* 1 point

Mark only one oval.

- Antibody
- Complement factor
- Opsonin
- Chemotactic factor

23. .... of the following is not involved in first line of defense. \* 1 point

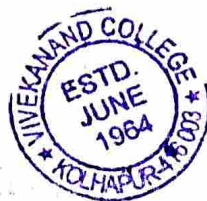
Mark only one oval.

- Mucous
- Conjunctiva and ear
- Complement system
- Respiratory system

---

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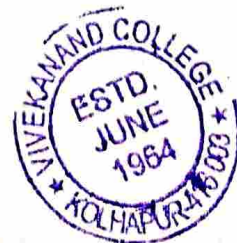
Google Forms





**kanand College (Autonomous), Kolhapur**  
**Department of Microbiology**  
**B.Sc.II Test**

	Score	Enter your name	Enter your class	Enter your roll number
27/04/2020 10:56:46	15 / 20	Nita Tanaji Powar	2	7682
27/04/2020 10:57:36	15 / 20	Monica Sutar	14	7604
27/04/2020 11:11:17	12 / 20	Manasi Anil Havale	14	7662
27/04/2020 11:13:18	16 / 20	Shweta Vishnu Thanekar	2	7687
27/04/2020 11:13:40	14 / 20	Supriya Ananda Lad	2	7669
27/04/2020 11:16:36	19 / 20	Manasi Anil Havale	2	7662
27/04/2020 11:20:42	16 / 20	Tejaswini Subhash Shinde	2	7684
27/04/2020 11:20:42	16 / 20	Ravina Kiran Powar	2	7683
27/04/2020 11:20:43	15 / 20	Sayali tukaram torase	2	7688
27/04/2020 11:20:45	16 / 20	Anushka Dhanaji Patil	2	7678
27/04/2020 11:20:46	16 / 20	Nilam Ananda Varute	2	7689
27/04/2020 11:20:50	16 / 20	Sayali shankar chavan	2	7659
27/04/2020 11:23:00	16 / 20	Ruchitha chandrakanth khairmode	2	7667
27/04/2020 11:23:05	16 / 20	Rohan Ramdas Jadhav	2	7665
27/04/2020 11:24:56	18 / 20	Abhay Bajirao Patil	2	7676
27/04/2020 11:28:46	19 / 20	Krutika rajendra koli	2	7668
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27/04/2020 11:29:04	18 / 20	Fiza aftab Naik adi	2	7675
27/04/2020 11:30:18	18 / 20	Nikita Dilip more	2	7672
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27/04/2020 11:46:18	17 / 20	Akshata Kuber Patil	2	7677
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27/04/2020 12:06:42	20 / 20	Arundhati Avinash Kamble	2	7666



27/04/2020 12:07:08	10 / 20	Shreya Sunil sutar	2	7685
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27/04/2020 12:20:07	15 / 20	Pratiksha mahipati magadum	2	7670
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27/04/2020 13:08:14	15 / 20	vaishnavi vyankatesh patil	2	7681
27/04/2020 13:11:43	12 / 20	Sayali Bhausahab lad	2	7690
27/04/2020 14:25:39	17 / 20	Shweta Bajirao Sutar	2	7686



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

**Department of Microbiology**

**Academic year 2019-20**

---

**B.Sc I**

**Notice**

Date: 01/05/2020

All the students of B.Sc. I Microbiology are hereby informed that, the online unit test of Water Microbiology & Milk Microbiology is scheduled on **15/05/2020 at 09.00 a.m.** Please make it convenient to be submit the test on time.

Link will be provided on the day of test.



  
V.V.Misal  
**HEAD**  
DEPARTMENT OF MICROBIOLOGY  
VIVEKANAND COLLEGE, KOLHAPUR  
(AUTONOMOUS)



# B. Sc I online test 1

Questions Responses 38

Total points: 40

Section 1 of 2

## B. Sc I online test 1

Water microbiology & Milk microbiology

Enter your name \*

Short-answer text

Enter your Roll number \*

Short-answer text

After section 1 Continue to next section

Section 2 of 2

## Multiple choice questions

Description (optional)



In SPC, it is generally expected that properly treated water should be yield less than..... \*  
Colonies per ml.





100

1000

10,000

Positive presumptive test may be the result of a type of association known as..... \*

- Antagonism
- Parasitism
- Synergism
- All the above

Which organisms produces typical colonies on Endo & EMB agar? \*

- S.aureus
- Coliforms
- Bacillus
- Pseudomonas

In Endo agar medium Basic fuchsin previously decolourised with..... \*

- Sodium sulphite
- Calcium chloride
- Sodium chloride
- Sodium alginate



.....green lactose bile broth medium.....Compound inhibits the growth of \*

- Lactose
- Bile salt
- Brilliant green
- NaCl

Differentiation between E.coli and Aerobacter aerogen performed by using.....test. \*

- Complete
- SPC
- MPN
- IMViC

In IMViC, the letter 'i' between V & C is added solely for..... \*

- Indole
- Incubation
- Euphony
- Identification

..... is the indicator of faecal pollution. \*

- B. subtilis
- E.coli



E.aerogens

Indole production can be detected by adding..... \*

- Kovac's indole reagent
- Methyl red
- KOH
- None of these

Aerobacter gives methyl red test negative because it converts some of the sugar to..... \*  
&.....

- Acid, gas
- Butenediol, acetoin
- Butenediol, acid
- Acetoin, ether

..... is the only source of carbon in koser's citrate medium. \*

- Glucose
- Lactose
- Sodium citrate
- Peptone



Which medium is used in Eijkman test? \*



Buffered tryptose lactose broth

- MacConkeys broth
- Peptone water
- Nutrient broth

Eijkman test is also called as..... test. \*

- IMViC
- Elevated temperature
- Confirm
- Complete

..... described a new method for the enumeration of coliforms in water which they named the molecular filter technique.

- Jacob and monod
- Goetz and Tsuneishi
- Watson and crick
- Hoskins

Sedimentation is enhanced by addition of..... \*

- Alum
- Sodium chloride
- Chlorine





..... is doesn't depends on the growth of schmutzdecke. \*

- Slow sand filter
- Rapid sand filter

In disinfection, the amount of chlorine required depends on the..... present. \*

- Water
- Microorganisms
- Organic matter

The amount of chlorine taken up is termed as..... \*

- Break point
- Chlorine demand
- Chlorine value

..... is not a intestinal disease. \*

- Typhoid
- Parathyroid
- AIDS
- Dysentery



Milk contains..... % water. \*



- 85.7
- 8.25
- 70

Colour of milk is due to presence of..... \*

- Vitamin
- Carotene
- Ash
- Water

Freshly drawn milk shows presence of..... \*

- Lactic acid bacteria
- Coliforms
- S.aureus
- Klebsiella

.....is not a factor that affects SPC of milk. \*

- Incubation temperature
- Incubation period
- Composition of milk
- Presence of carotene



In MBRT test,..... gets reduced while..... gets oxidised. \*

- Methylene blue, milk
- Milk, methylene blue

In dye reduction test, rate of reduction is..... proportional to number of bacteria present \*  
in milk.

- Directly
- Inversely
- None of these

MBRT gives an accurate bacterial count in milk. \*

- False
- True

In Resazurin method, mauve pink colour observed in..... hr \*

- More than 1
- 1
- Within 1/2
- 2

Blue colour to the milk is due to growth of.....in milk. \*

- Flavobacterium



Serratia spp

Pseudomonas syncaea

When Pseudomonas grows in association with Street. lactis,..... colour is observed. \*

Deep blue

Blue

Faint blue

Pink

The colour change of milk is due to..... Organisms. \*

Sporulating

Pigmented,

Capsulated

Motile

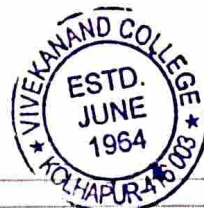
Barny flavour to the milk is due to..... \*

E.coli

A.oxytocum

S.lactis

All the above





Acidic Alkaline Neutral

..... Is not a character of stormy fermentation. \*

- Growth of pigmented organism
- Foam at the top of milk
- Gas bubbles in curd
- Floating of curd with gas bubbles

Louis Pasteur designed pasteurisation process for..... Preservation. \*

- Milk
- Wine
- Food
- All the above

V. H & F. Soxhlet introduced pasteurisation for preservation of..... \*

- Milk
- Wine
- Food
- All the above



1  
Aspartase test is used to check efficiency of..... \*

- Sterilisation
- Radiation
- Pasteurisation
- Vaccination

The LTH method of milk pasteurisation, exposes milk to a temperature of 62.8°C \*

- 15
- 20
- 30
- 45

MBRT test determines..... quality of milk. \*

- Nutritional
- Bacteriological
- Chemical
- Fat

Ropiness of milk is caused by.... \*

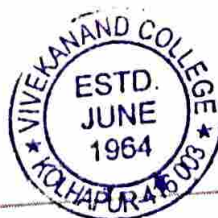
- Bacteria
- Viruses



1  
Protozoa

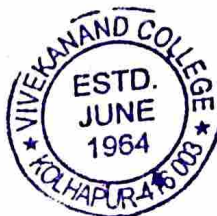
The efficiency of pasteurisation depends on.... \*

- Growth of microorganisms
- Time-temperature relationship



**ONLINE TEST**  
**Vivekanand College (Autonomous), Kolhapur**  
**Department of Microbiology**  
**B.Sc.I Test -1**

Timestamp	Score	Enter your name	Roll number
15/05/2020 09:43:10	38 / 40	Phulabai prakash powar	7380
15/05/2020 09:56:58	40 / 40	ASHWINI SHIVAJI KHOT	7369
15/05/2020 10:08:08	32 / 40	Veda Sunil Sakhalkar	7384
15/05/2020 10:13:13	32 / 40	Veda Sunil Sakhalkar	7384
15/05/2020 10:29:56	35 / 40	Prasad Ashok Bandivadekar	7405
15/05/2020 11:23:28	31 / 40	Saniya Rajvardhan Sawant	7386
15/05/2020 11:24:09	31 / 40	Aditi Ajay Jadhav	7412
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15/05/2020 11:55:16	38 / 40	Pranav Shriram Datar	7360
15/05/2020 12:23:42	39 / 40	Yash Sandesh Barapatre	7359
15/05/2020 12:26:50	36 / 40	Ruchita Prashant Mahadik	7372
15/05/2020 12:29:54	38 / 40	Saniya shaikh	7387
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15/05/2020 14:39:01	34 / 40	Shraddha Adinath Davang	7361
15/05/2020 15:34:00	36 / 40	Vaishnavi suresh patil	7379
15/05/2020 15:35:24	17 / 40	Divya Vitthal Wakrushe	7274
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15/05/2020 15:39:00	34 / 40	Sana Chand Mullani	7376





15/05/2020 15:45:16	36 / 40	Shamita Shital Patil	7378
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15/05/2020 17:54:28	22 / 40	Divya kulkarni	7370
15/05/2020 18:35:01	27 / 40	Sujata Ramashish Dixit	7362
15/05/2020 21:06:28	37 / 40	Siddhi dhananjay salwankar	7285
16/05/2020 11:10:49	36 / 40	Mayur Manohar katale	7367

