

"Education for Knowledge , Science and Culture".  
Shikshanmaharshi Dr. Bapuji Salunkhe  
Shri Swami Vivekanand Shikshan Sanstha's  
**Vivekanand College Kolhapur.( Autonomous)**  
Department of Biotechnology ( Optional)

Date: 28/09/2019

## Notice

All students from B.Sc II Biotechnology (Optional ) there will be a Internal Exam On 03/09/2019 and 05/10/2019 at Room no. 23 at 2:30 pm. An attendance is compulsory for all as it is a part of Academics. So kindly be present on time.



A handwritten signature in blue ink, appearing to read "S. Salunkhe", written over the stamp.

**Head of Department**  
**Head**

Department of Biotechnology (Optional)  
Vivekanand College, Kolhapur (Autonomous)

05/10/2019

	Name of student	Marks obtained	Signature
8387	Akshay Jayappa Bansode	5	<u>Bansode</u>
38	Janhavi Dnyandeve Varute	5 1/2 = 6	<u>Varute</u>
39	Mayuri Sanjay Parit	2 4	<u>Parit</u>
40	Ajit Vishwas Khandekar	4	<u>Akhandekar</u>
41	Saniket Sanjay Madhale	4 6	<u>Sanadhalu</u>
42	Shrutkirti Shahaji Shinde	9	<u>Shruti</u>
43	Rutwik Ganapati Sonawane	6 7	<u>RS</u>
44		6	
45	Saloni Vijay Lambu.	7 8	<u>Slambu.</u>
46	Rahim Munvrali Shaikh	8 9	<u>RShaikh</u>
47	Sudarshan Narayan Redekar	1 1/2 5	<u>Redekar</u>
48	Gourav Babaso Magadum	4 5	
49	Amruta Sanjay Bhalekar	5 7	<u>A.S. Bhalekar</u>
50	Megha Nandkumar Barge.	4 7	<u>MBarge.</u>
51	Kajal Vasant Guikwad	1 4	<u>BKurod</u>
52	Rashi Rajendra Guikwad	1 4	<u>Rashi</u>
53	Dnyani E. Ravan.	4 7	<u>Dnyani</u>
54	Minal M. Kirokhar	2 5	<u>Minal</u>
55	Ankita B. Sanmukh.	6 5	<u>Ankita</u>
56		4	
57	Ashitosh Govind Bhat	7 8	<u>robbhat</u>
58			

B.Sc. III Biotechnology (Optional)  
Animal Tissue Culture

INTERNAL EXAM Date: 03/10/2019

No.	Name of Student		Signature
8337	Akshay Jayappa Bansode	5/10	<u>Bansode</u>
8338	Janhavi Dnyandev Varute	5/2/10	<u>Varute</u>
8339	Mayuri Sanjay Parit	2/10	<u>Parit</u>
8340	Ajit Vishwas Khandekar	4/10	<u>Khandekar</u>
8341	Sanket Sanjay Madhale	4/2/10	<u>Madhale</u>
8342	Shrutikirti Shahaji Shinde	9/10	<u>Shinde</u>
8343	Rutwik Ganapati Sonawane	6/10	<u>Sonawane</u>
8344	Rutuja Netaji Londhe	6/10	<u>Londhe</u>
8345	Baloni Vijay Lambu.	7/10	<u>Lambu</u>
8346	Rahim Munvrali shankh	8/10	<u>Shankh</u>
8347	Sudanshan. Narayan Redekar	12/10	<u>Redekar</u>
8348	Gourav Babajomayadum	4/10	<u>Gourav</u>
8349	Amruta Sanjay Bhalekar	5/10	<u>A.S. Bhalekar</u>
8350	Megha Nandkumar Barge	9/10	<u>Barge</u>
8351	Kajal Vasant Gaikwad.	1/10	<u>Gaikwad</u>
8352	Rashi Rajendra Gaikwad	1/10	<u>Rashi</u>
8353	Deyyani Eknath Ravan.	4/10	<u>Deyyani</u>
8354	Manal Maruti Kiralkar	2/10	<u>Manal</u>
8355	Ankita Banerji Sarmukh	6/10	<u>Ankita</u>
8356	Varsharani Prakash Chougale	4/10	<u>Chougale</u>
8357	Ashitosh Gouind Abot	7/10	<u>Abot</u>

B.Sc (part-III) (Semester-V) Examination

BIOTECHNOLOGY (Optional)

Animal Tissue Culture

Internal Examination

Day and Date:

/10/2019

Time: 11.30-12.15

- Instructions: 1) All questions are compulsory.  
2) Figures on the right indicate full marks.

Q1. Answer the following.

10 Marks (1 X 10)

- 1) Enlist the names of Instruments required in Animal Tissue Culture Laboratory?
- 2) What will be the color of medium at pH 7.4, if the medium contains phenol red?
- 3) Before inoculation of tissue the isolated tissue must be disaggregated. Give the possible ways for disaggregation?
- 4) If you want to transfect DNA fragment to specific position in cell which method would you choose & why?
- 5) How Laminar Air Flow provides aseptic environment?
- 6) Give the examples of Selective markers used to select transfected cells?
- 7) Why transgenic animals are produced?
- 8) Define Apheresis?
- 9) What are Monoclonal Antibodies?
- 10) Give diagrammatic representation of Roller Bottle Culture?

1) Neha Amol Kolekar	7335	<u>Kolekar</u>
2) Rutwik Subhash Patil	7347	<u>Patil</u>
3) Shinde Omkar Dilip	7353	<u>Shinde</u>
4) Harshada Pradeep Wadikar	7398	<u>Wadikar</u>
5) Patil Gauri Devba	7345	<u>Patil</u>
6) Ayarekar Tanaya Srujeet	7329	<u>Ayarekar</u>
7) Kshitija Appaso Kharade	7334	<u>Kharade</u>
8) Anjiri Sachin Upadhye	7355	<u>Anjiri</u>
9) Sidolchi Machhindra Dawale	7332	<u>Dawale</u>
10) Chaitrali Vidyadhar Shinde	7352	<u>Shinde</u>
11) Pratiksha Bajarang Thakare	7354	<u>Thakare</u>
12) Sakshi Sachin Sardar	7350	<u>Sakshi</u>
13) Sakshi Krishna Kurdekar	7336	<u>Kurdekar</u>
14) Srushti Santosh Sengar	7349	<u>Sengar</u>
15) Priya Shantilal Patel	7344	<u>Patel</u>
16) Geetanjali Sugandh Mazulkar	7339	<u>G.S. Mazulkar</u>
17) NIMRAH SHAKIL SHAIKH	7351	<u>Shaiikh</u>
18) Samruddhi Subhash Nigade	7341	<u>Nigade</u>
19) Shradha Naveesh Phandurani	7330	<u>Shradha</u>
20) Jfat. Asif. Mankar	7338	<u>Mankar</u>

Choose the correct alternative and rewrite the sentences.

1. The term Biotechnology is coined by\_\_.

- a. Watson                      b. Jacob                      c. Karl Ereky                      d. Nelson

2. Carbohydrates are linked by ---- bond.

- a. Peptide                      b. Glycosidic                      c. Ester                      d. Ether

3. Waxes are belongs to to -- ----lipids.

- a. Derived                      b. Complex                      c. simple                      d. Neutral

4. ---- form of DNA structure was proposed by Watson and Crick.

- a. B                      b. A.                      c. Z                      d. C

5. ---- is the controlled use of biological agents such as microorganism or cellular components, for beneficial use.

- a. Biochemistry                      b. Botany                      c. Biotechnology                      d. Microbiology

6. --- is an example non reducing disaccharide.

- a. Lactose                      b. Maltose                      c. Sucrose.                      d. Manose

7. Cholesterol contain ---- carbons in its structure.

- a. 25                      b.27                      c. 29                      d. 30

8. ---- RNA is called insoluble RNA.

- a. Transfer                      b. Ribosomal.                      c. Messenger                      d. Repeat

9. --- is an accumulation of microbial cell and inorganic component held together in a polymeric matrix.

- a. Biochip                      b. Biofilm                      c. Biosensor                      d. Biosurfactant

10. In India there are about ---- Biotechnology Industry.

- a. 200                      b. 300                      c. 250                      d. 270

11. Adult onset diabetes mellitus is also called ----- diabetes.

- a. Type I                      b. Type II                      c. Type III.                      d. Type IV

12. According to lipid profile test, normal value of cholesterol is----- mg/dl.

- a. 120 -145.                      b. 125-250.                      c. 150- 200.                      d. 250-260

13. Nucleotides are ----- esters of nucleosides.
- a. Nitrogenous base                      b. Ribose                      c. Phosphoric acid                      d. Acetic acid
14. ----- is widely used in photographic film and packing material. e
- a. Heparin                      b. Cellulose acetate                      c. Cellulose nitrate                      d. pectin
15. D arm is part of ----- RNA.
- a. Transfer                      b. Ribosomal                      c. Massenger.                      d. Transfer
16. Starch is made up of ----- and amylopectin. L
- a. Amylose.                      b. Cellulose.                      c. Glycogen.                      d. Heparin
17. In polynucleotide the basic is added from ---- .
- a. 5'---3'                      b. 3'---5'                      c. 3'--6'                      d. 5'---7'
18. Transgenic plant production is carried out by ---- branch of Biotechnology. 90
- a. Taxonomy                      b. plant tissue culture                      c. Ecology.                      d. Environmental
19. Lecithin is also known as phosphotidyl---
- a. serine                      b. choline                      c. ethanol amine                      d. Inositol
20. Bacterial cellwall contain ----- . 99
- a. Cellulose                      b. Peptidoglycan.                      c. Inulin.                      d. Starch
21. Lipids are classified into ---- classes.
- a. 5                      b. 4.                      c. 6.                      d. 3
22. ---- DNA is left handed DNA.
- a. B.                      b. A.                      c. Z.                      d. C
23. In animal cell ,extra glucose is stored in the form of ----- . 92
- a. Amylose.                      b. Cellulose.                      c. Glycogen.                      d. Heparin
24. Nucleosides contain ----- bond between pentode sugar and nitrogenous base.
- a. Alpha glycosidic                      o. Beta glycosidic                      c. Gamma glycosidic                      d. Delta glycosidic
25. Varbasose is an example of---
- a. Disaccharide                      b. Trisaccharide                      c Tetrasaccharide                      d. Pentasaccharide