

(6 pages)

Reg. No. :

Code No. : 20583 E Sub. Code : CMZO 52

B.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2024.

Fifth Semester

Zoology — Core

MICROBIOLOGY AND IMMUNOLOGY

(For those who joined in July 2021 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Select the name of the virus which infects plants.
(a) zoophages
(b) phytophage
(c) autotroph
(d) heterotroph

6. Choose the causative agent of Cholera.
(a) E.coli
(b) Entamoeba histolytica
(c) Plasmodium sp.
(d) Vibrio cholerae
7. Select the secondary lymphoid organ from the following.
(a) Thymus (b) Bursa of fabricius
(c) Spleen (d) Liver
8. Name the antigen binding site of antibody
(a) paratope (b) epitope
(c) epistasis (d) hypostasis
9. Select the auto immune disease from the following.
(a) cholera (b) thyrotoxicosis
(c) rabies (d) all the above
10. Identify the graft takes within the same individual is
(a) autograft (b) syngraft
(c) allograft (d) xenograft

Page 3 Code No. : 20583 E

2. Identify the father of Microbiology.
(a) Darwin (b) Leeuwenhock
(c) Lamark (d) De Vries
3. Show the culture medium which allows the growth of particular variety of Bacteria.
(a) Differential medium
(b) Blood meal medium
(c) Transport medium
(d) Chocolate medium
4. Write the device which is used for the continuous culture of the bacteria.
(a) Thermometer
(b) Turbidostat
(c) Stethoscope
(d) All of these
5. Write the causative agent of Ropiness of milk.
(a) Yeast
(b) Pseudomonas
(c) Bacilius sp
(d) E.coil

Page 2 Code No. : 20583 E

PART B — (5 × 5 = 25 marks)

Answer ALL questions choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Differentiate the Monera and Protista
Or
(b) Enumerate the scope of microbiology.
12. (a) Explain the selective medium.
Or
(b) Interpret the factors influencing the bacterial growth.
13. (a) Write an economic importance of yeast.
Or
(b) Determine the causative agent and symptoms of Candidiasis.
14. (a) Discuss the uses of heptens.
Or
(b) Illustrate the B cell activation.

Page 4 Code No. : 20583 E
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15. (a) Explain the types of Immunization.

Or

(b) Explain the graft rejection.

PART C — (5 × 8 = 40 marks)

Answer ALL questions choosing either (a) or (b).
Each answer should not exceed 600 words.

16. (a) Illustrate the structure of Bacteriophage.

Or

(b) Classify the microbes based on cellularity.

17. (a) Explain in detail about the different culture media.

Or

(b) Analyze the different methods of bacterial culture.

18. (a) Illustrate the method of Penicillin production.

Or

(b) Write the spoilage of Meat and Egg.

Page 5 Code No. : 20583 E

19. (a) Thymus is a primary lymphoid organ.
Discuss

Or

(b) Summarize the Antigen and antibody reaction.

20. (a) Explain the immunodeficiency.

Or

(b) Discuss any two auto immune disease.

Page 6 Code No. : 20583 E