

B.Sc.(CBCS) DEGREE EXAMINATION,
NOVEMBER 2022.

Fifth Semester

Zoology — Core

IMMUNOLOGY AND MICROBIOLOGY

(For those who joined in July 2020 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer.

1. Acquired immunity is also called
(a) Active immunity (b) Innate immunity
(c) Specific immunity (d) None of the above
2. The lymph nodes, the spleen and the tonsils are
(a) Primary lymphoid organs
(b) Secondary lymphoid organs
(c) Both lymphoid organs
(d) All the above

3. IgM antibodies are the first immunoglobulin your body makes after you're exposed to _____.
(a) Germs (b) Light
(c) Temperature (d) All the above
4. The Thymus and bone marrow are the major _____ lymphoid organs
(a) Primary (b) Secondary
(c) Tertiary (d) None of the above
5. Macrophage, type of _____ that helps eliminate foreign substances by engulfing foreign materials and initiating an immune response.
(a) Pigment (b) White blood cell
(c) Red blood cell (d) All the above
6. The agents of humoral immunity is
(a) Benign (b) Malignant
(c) Antibodies (d) All the above
7. _____ is a liquid medium used for the cultivation of a wide variety of organisms from clinical specimens.
(a) Nutrient Broth (b) Agar agar
(c) Water (d) All the above

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8. A _____ medium is used to isolate a particular bacterial species or genus
(a) Selective culture (b) Mixture culture
(c) Batch culture (d) All the above
9. Food borne illness, more commonly referred to as _____
(a) Food production (b) Food poisoning
(c) Food ingredient (d) All the above
10. Tuberculosis (TB) is a potentially serious infectious disease that mainly affects the
(a) Eye (b) Lungs
(c) Throat (d) None of the above

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) List out the different types of acquired immunity.
Or
(b) Define the term Peyer's patches what is their function?

12. (a) What are the properties of immunoglobulin?
Or
(b) Write about the Common types of antigen-antibody reactions.
13. (a) Describe the three types of T cells what do they do?
Or
(b) Give an example of cell-mediated immune response.
14. (a) Give some information of the basic structure of a virus.
Or
(b) Summarize the microbiology scope, importance and branches.
15. (a) Can you stop and control of gonorrhea?
Or
(b) How do you know if you got food poisoning?

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Explain the structure and function of lymph node.

Or

- (b) What is the scope and applications of immunology?

17. (a) Describe the process of antigen-antibody reaction with suitable example.

Or

- (b) Explain the difference between precipitation and agglutination.

18. (a) Where do stem cells come from? What are three benefits of stem cells?

Or

- (b) Examine the primary and secondary immune response.

19. (a) How many phases are in the bacterial growth curve?

Or

- (b) What are the three types of bacterial culture media?

20. (a) Describe the various symptoms of Streptococcus infection.

Or

- (b) Which fungus produces penicillin antibiotic? Where it is found?
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