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Fifth Semester B.Sc. Degree Examinations, March/April 2021

(CBCS Scheme)

Biotechnology

Paper VI – IMMUNOLOGY AND ANIMAL BIOTECHNOLOGY

Time : 3 Hours]

[Max. Marks : 70

Instructions to Candidates : Draw neat labelled diagram wherever necessary.

SECTION – A

- I. Write short notes on the following : **(5 × 2 = 10)**
1. Passive immunity
 2. Louis Pasteur
 3. Haptens
 4. Hela-cells
 5. Agglutination

SECTION – B

- II. Answer any **FOUR** of the following : **(4 × 5 = 20)**
6. What are the functions of Immunoglobulins? Explain.
 7. Explain delayed type of Hypersensitivity.
 8. Write a note on DNA vaccines.
 9. Write an account on serum free media.
 10. Explain the method of disaggregation of tissue.

SECTION – C

- III. Answer any **THREE** of the following : **(3 × 10 = 30)**
11. What is Immunity? Explain innate immunity in detail.
 12. What is complement system? Explain classical pathway.

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13. What is ELISA? Explain the types.
14. What are Lymphoid Organs? Explain secondary Lymphoid Organs.
15. Explain the production of transgenic sheep.

SECTION - D

IV. Answer the following in one sentence : **(10 × 1 = 10)**

16. Atopy
 17. Expand EGF
 18. Marker gene
 19. Which immunoglobulin is found in type-I Hypersensitivity reaction?
 20. Expand HGPRT
 21. Mast cell
 22. Name a disease against which toxoid are administered?
 23. What is serum?
 24. Secretory Immunoglobulin
 25. Inflammatory mediators
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