

Q.P. Code – 42542

Fifth Semester B.Sc. Degree Examination, October/November 2019

(CBCS Scheme)

Zoology

Paper VI — CELL BIOLOGY AND IMMUNOLOGY

Time : 3 Hours]

[Max. Marks : 90

Instructions to Candidates : Draw neat labelled diagrams wherever necessary.

PART - A

I. Answer any **TEN** of the following : (10 × 2 = 20)

1. What is phase contrast microscope?
2. Briefly explain Exocytosis.
3. Mention the functions of Desmosome.
4. What is Parthenogenesis?
5. Write a note on Telomere.
6. Briefly explain Embryonic stem cells.
7. What is Metastasis?
8. List the applications of Immunology in Microbiology.
9. Explain Basophil.
10. What are exogenous antigens?
11. What is cell mediated immune response?
12. Mention any two Primary Lymphoid Organs.



PART - B

II. Answer any **SIX** of the following : (6 × 5 = 30)

13. Explain the structure and functions of Golgi complex.
14. With a neat labelled diagram describe the structure of Lamp brush chromosome.

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15. List the significances of Parthenogenesis.
16. Mention the differences between Non-malignant and Malignant tumours.
17. Write a note on B-Lymphocytes.
18. Briefly explain Endogenous antigens.
19. Explain Innate Immunity.
20. Write a note on ELISA.

PART – C

III. Answer any **FOUR** of the following : **(4 × 10 = 40)**

21. Explain the structure of centrifuge and mention the application of centrifugation.
22. Write a note on :
 - (a) Centrosome
 - (b) Mitochondrion
23. Explain carcinogens and add a note on preventive measures of Cancer.
24. Write notes on :
 - (a) Spleen
 - (b) Western blot test
25. Give an account :
 - (a) Supernumerary chromosomes
 - (b) Polyclonal antibodies
26. Explain Cornea Grafting and Plastic Surgery.