

S.No. 1769

12UBTE01

(For the candidates admitted from 2012–2013 onwards)

B.Sc. DEGREE EXAMINATION, NOVEMBER 2017.

Fifth Semester

Biotechnology

Elective – IMMUNOLOGY AND
IMMUNOTECHNOLOGY

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Exogenous antigens.
2. Hematopoiesis.
3. Adjuvant.
4. Plasmablast.
5. Fab variable region.
6. Hybridoma.
7. TNF.

8. Isograft.
9. Immunological Tolerance.
10. Immunomodulators.

PART B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Describe about innate immunity.
Or
(b) Write short notes on mast cells.
12. (a) Write a note on antigen processing and presentation.
Or
(b) Explain about maturation of B cells.
13. (a) Give a detailed account on structure and functions of Ig M.
Or
(b) Explain about immunofluorescence.
14. (a) Elucidate the terminal complement pathway.
Or
(b) Write a short note on cytokines.

15. (a) Explain on delayed type hypersensitivity.

Or

- (b) Give a detailed note on immunodiagnosis of tumors.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain in detail on the functions of secondary lymphoid organs.
17. Give a detailed account on cell mediated immunity.
18. Explain the various types of precipitations reactions.
19. Elaborate Major histocompatibility molecules with neat diagrams.
20. Explain various types of organ specific auto immune diseases.