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M.Sc.—Biotech-IIS (2.3)

2018

Time : 2 hours

Full Marks : 40

Answer any four questions

*All questions carry equal marks*

*Candidates are required to answer in their own words  
as far as practicable*

**( MOLECULAR IMMUNOLOGY )**

1. What is the role of MHC molecule in the recognition of infected cells by NK cells and what is physiology response of this recognition ?
2. How does the specificity of innate immunity differ from that of adaptive immunity Give example of the ability of innate immune mechanisms to recognize microbes from mammalian cells.

( Turn Over )

3. Write short notes on :

(i) AIDS

(ii) Haematopoiesis.

4. When antigen enters through the skin, in what organs are they concentrated? What are the cell types that play major role in this process of antigen capture?

5. What are functionally distinct regions of antibody and T cell receptor molecules? What features of the amino acid sequences in these regions are important for their function?

6. What are the major subsets of CD4+ helper T cells, and how do they differ?

7. Write short notes on :

(i) Hybridoma technology

(ii) Generation of antibodies diversity.

8. What type of antigens may induced immune responses that causes hypersensitivity reactions?

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