

S.E-IV sem Biotech

15/12/14

Immunology & Immunotechnology

(26)

QP Code :12570

(3 Hours)

[Total Marks : 80

- N.B :
- (1) Questions No.1 is compulsory.
 - (2) Attempt any three questions out of remaining five questions.
 - (3) Draw diagram wherever necessary.

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| 1. | Explain briefly the following (any four) | 20 |
| | (a) Antigenicity | |
| | (b) Interferons | |
| | (c) Phagocytosis | |
| | (d) Immunological tolerance | |
| | (e) Spleen | |
| | (f) MHC Restriction. | |
| 2. | (a) Justify "Innate Immunity is the first line of defence". | 10 |
| | (b) Describe the structure of Immunoglobulin molecule in detail and write its function. | 10 |
| 3. | (a) Explain how B - cell and T - cells co-ordinate to bring about Adaptive immunity. | 10 |
| | (b) Explain complement proteins in complement system. | 10 |
| 4. | (a) Describe the technique used for the production of monoclonal antibodies. | 10 |
| | (b) What are vaccines? Write about different types of vaccines. | 10 |
| 5. | (a) What is ELISA? Explain different types of ELISA. | 10 |
| | (b) Describe Acquired Immunodeficiency diseases with reference to AIDS virus. | 10 |
| 6. | (a) Write in detail about major histocompatibility complex. | 10 |
| | (b) Explain Cytosolic antigen processing and presentation. | 10 |

GN-Con.:11522-14.