Registration No. :											
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Total number of printed pages – 2

B. Tech

Fifth Semester (Special) Examination – 2013 IMMUNOLOGY

BRANCH: BIOTECH

QUESTION CODE: D 272

Full Marks - 70

Time: 3 Hours

Answer Question No. 1 which is compulsory and any five from the rest.

The figures in the right-hand margin indicate marks.

1. Answer the following questions:

2×10

- (a) What is MHC polymorphism?
- (b) What is Epitope? How it differs from Agretopes
- (c) Name the immunoglobulin that capable of crossing the placenta and give passive immunity to fetus.
- (d) What is class switching?
- (e) Differentiate between attenuated and killed vaccine.
- (f) What is ELISA?
- (g) Name two immunodeficiency diseases of human.
- (h) What do you understand by the terms Idiotypic variability and Isotypic variability?
- (i) What is Opsonization?
- (j) What do you mean by hypo function of immune system?
- 2. Write short notes on:

5×2

- (a) Immunoproliferative diseases
- (b) Phagocytosis.

3. Differentiate between: 5×2 MHC class I and . MHC class II (b) B cell and T cell. How is the lymphoid organs classified? Give an account the structure and 4. function of Secondary lymphoid organ. 10 Explain the laboratory method for the production of monoclonal antibody 5. molecule. Explain the alternate pathway of complement activation. (b) 5 6. Briefly explain the series of reaction that occur in type-I and type-II hypersensitivity reaction. 5 Describe the basic molecular structure of antibody molecule. 5 Briefly Explain: 7. 5x2 Immunological Tolerance RAL LIBRAD (b) Granulocytes. Write short notes on any two of the following 8. 5×2 Antibody diversity Characteristics of a good antro (b) (c) Passive and active immunity (d) Inflammatiory response.