B. Sc.(Biotech.)-II Year

NS-3468

B. Sc. (Biotechnology) Examination, May 2016

IMMUNOLOGY AND IMMUNOTECHNOLOGY

(B-205)

(New)

'ime: Three Hours]

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[Maximum Marks : 50

lote: Attempt any five questions. All questions carry equal marks.

> What do you mean by live and killed vaccines? How can these vaccines work for eradicating the disease? 10

> What is hybridoma technology? Describe the production and purification of monoclonal antibodies. 10

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Give an account of role played by any three of the 3. 10 following with respect to innate immunity:

> (i) Macrophages

Natural killer cell (ii)

Mast cell.

What is difference between humoral and cell 4. mediated immunity (CMI)? Describe clonal selection 10 theory.

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2×5=10

Write notes on any two of the following:

(i)ر **ELISA**

J(ii) RIA

IRMA. (iii)

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Write a note on organization of class I and II MHC genes and give the structure of MHC molecule. 10

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(iii)

- What are antigenic determinants on immunoglobulins?
 - Give an account of each type i.e. isotype, idiotype and allotype. 10

Write notes on any two of the following:

 $5 \times 2 = 10$

- B-lymphocyte
- T-lymphocyte
- (c) Macrophages.
- Define antigen and antigenecity. Write briefly a 9. classification of antigen. 10

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Write an essay on "autoimmune disease", explain it with the example of any one disease. 10

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