

2929

6. Write short notes. (**any three**) 3×5=15

- (i) Inflammation
- (ii) Properties of cytokines
- (iii) Delayed type of hypersensitivity
- (iv) Autoimmune disorders

[This question paper contains 4 printed pages]

Your Roll No. :

Sl. No. of Q. Paper : **2929 I**

Unique Paper Code : 2232523601

Name of the Paper : Basics of Immunology
(NEP)

Name of the Course : **B.Sc. Life Sciences**

Semester : VI

Time : 2 Hours

Maximum Marks : 60

Instructions for Candidates :

- (a) Write your Roll No. on the top immediately on receipt of this question paper.
- (b) Attempt **four** questions in all including **Question number 1**, which is compulsory.
- (c) Draw suitable well-labelled diagrams wherever it is necessary.

- 1.** (a) Define the following terms: 4
- (i) Interferons
 - (ii) Adjuvant
 - (iii) Immunodeficiency
 - (iv) Variolation
- (b) Write the full form of the following: 3
- (i) TNF
 - (ii) TLR
 - (iii) ADCC
 - (iv) PAMP
 - (v) CDR
 - (vi) SCID
- (c) Differentiate between the following: 4
- (i) Subunit vaccine and recombinant vector vaccine
 - (ii) MHC I and MHC II
- (d) Give the contributions of the following scientists: 2
- (i) G. Snell, J. Dausset and B. Benacerraf
 - (ii) Edward Jenner

- (e) Give reason for the following: 2
- (i) Passive immunity is transient.
 - (ii) In multivalent antibodies avidity is greater than affinity.
- 2.** Write in detail about the effector function of cell mediated immunity and humoral immunity. 8+7=15
- 3.** Draw a well labelled diagram of an antibody monomer and compare the structure and function of IgG and IgM. Explain how was the structure of antibody deduced? 8+7=15
- 4.** With the help of suitable diagram explain the processing of the exogenous and endogenous antigens. 8+7=15
- 5.** Describe the Classical pathway of complement system. How its activation is different from Lectin pathway?. 8+7=15