

Roll No.

Total Pages : 3

7302/N

J-19/2110

IMMUNOLOGY

Paper-IV

Semester-I

Time allowed : 3 Hours] [Maximum Marks : 75

Note : Attempt **two** questions each from Section A and Section B carrying **15** marks each and entire section C consisting of **10** short answer type questions of **1½** marks each.

SECTION-A

1. Name different types of immunity? How will you differentiate between Innate and acquired Immunity? Explain it with by giving suitable examples? 15
2. What is the difference between haptens and epitopes ? 15

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3. Discuss organisation of immunoglobulin genes in detail? 15
4. Explain briefly about cells involved in immune system? 15

SECTION-B

5. Give a brief account about on Interferons? 15
6. Describe the methods for enumeration of various types of cells in immune system? 15
7. What do you know about antibody engineering? 15
8. Explain briefly about Hybridoma technology? 15

SECTION-C

9. Define the following: 10×1½=15
 - (i) Immunology
 - (ii) Immunoglobulin
 - (iii) Immuno system

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(iv) Immunopotential

(v) Vaccine

(vi) Cytokines

(vii) Interferons

(viii) Immunoblot

(ix) Abzymes

(x) Inter Perkin.