

Roll No.....

M.Sc.

Paper IV

Time : 3 Hours]

[Maximum Marks : 80

SECTION 'A'

Choose the correct answer :

$$1 \times 8 = 8$$

- P.T.O.

[2]

- (a) Neutrophils (b) Basophils
(c) Macrophage (d) Eosinophils
5. A graft between members of the same species is termed in :
(a) Autograft (b) Isograft
(c) Xenograft (d) Allograft
6. Which of the following is a non-organ specific autoimmune disease :
(a) Myasthenia Gravis (b) Systemic lupus Erythematosus
(c) Hashimoto's thyroiditis
(d) Pernicious Anaemia
7. Cytotoxic T cell recognize antigen in association with :
(a) Class I MHC (b) Class II MHC
(c) Class III MHC (d) Class I and II MHC
8. Which type of hypersensitivity reaction causes rapid anaphylaxis in response to an allergen :
(a) Type I (b) Type II
(c) Type III (d) Type IV

SECTION 'B'

6 × 4 = 24

(Short Answer Type Questions)

Note : Answer the following questions in 250 words.

1. Describe the mechanism of Antigen Processing and Presentation.

Or

Write a note on cells of immune system.

2. What is immunofluorescence test ?

Or

Explain the phagocytosis process.

[3]

3. Write a note on cytokine.

Or

Explain the structure and type of MHC.

4. Write a note on any two organ specific Autoimmune Disease.

Or

Explain the structure of B cell receptor complex.

SECTION 'C'

12 × 4 = 48

(Long Answer Type Questions)

Note : Answer the following questions in 500 words.

1. Write a note on cell mediated immunity.

Or

What is immunoglobulin ? Explain its structure, type and function.

2. Write a note on primary lymphoid organ.

Or

Describe the ELISA process.

3. What is complement ? Explain the complement activation process.

Or

Describe the transplantation process.

4. Compare the type II and type III hypersensitive reaction.

Or

Write a note on T cell receptor complex.

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