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2316

Class – M.Sc. (2nd) Botany Subject – Immunology Paper – BOT C–725

Time / Jowed : 3 Hours

Maximum Marks : 50

30

SECTION-A

Questic o 1 is compulsory, carrying Eight marks.

1. Explain briefly the following :

- (i) Phagocytes
- (ii) Hinge region.
- (iii) Cross reactivity
- (iv) B--cells
 - (v) Mitogens
- (vi) Allotypes
- (vii) Natural killer cells
- (viii) Immunoglobulin

 $(8 \times 1 = 8)$

SECTION-B

Attempt any seven questions from Section-B. Each question carrying 3 marks.

- 2. Write a note on bifunctional property of antibodies.
- 3. What are monoclonal antibodies.
- 4. Give a historical perspective of immune system.
- What do you know about antigen recognition by cells of innate immunity.
- 6. Describe the prerequisites of immunogenicity.

Describe Primary and Secondary lymphoid tissues.
30/2

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- 8. Give an account of general structure of Antibody.
- 9. Describe the following terms-

(a) Epitope (b) Hapten (c) Avidity.

- 10. Describe the antigen antibody interaction.
- 14. Explain the activators of lymphocytes. $(7 \times 3 = 21)$

SECTION-C

Attes pt any three questions. Each question carrying 7 marks.

- 12. Give the classification of Antibodies.
- What are immuno deficiencies? Give a detail account of secondary immuno deficiency disorder.
- 14. Discuss the role of immune system in health.
- 15. What is major histocompetibility complex? Explain.

16. Describe in detail the cells of innate immunity.

 $(3 \times 7 = 21)$

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2

30/2