



**B.Sc. VI Semester Degree Examination, Sept./Oct. - 2024**

**BIOTECHNOLOGY**

**DSC - 15 : Immunology**

**(NEP)**

Time : 2 Hours

Maximum Marks : 60

**Note :** Answer **all** sections. Draw labelled diagrams wherever necessary.

**SECTION - A**

Answer the following sub-questions.

**10x1=10**

1. (a) What is cell - mediated Immunity ?
- (b) Who proposed clonal Selection Theory ?
- (c) Expand TCC.
- (d) Name any two types of Epitope.
- (e) Define haptens.
- (f) Expand FACS.
- (g) Define Immune surveillance.
- (h) What is Myasthenia gravis ?
- (i) What is Toxoids ?
- (j) What do you mean by graft rejection ?

**SECTION - B**

Answer **any four** of the following questions.

**4x5=20**

2. Write a short note on T-lymphocytes.
3. Compare and contrast monoclonal and polyclonal antibodies.
4. Explain the principle of Radial Immunodiffusion.
5. Briefly explain about pathogenesis of rheumatoid arthritis.
6. Compare the inflammatory responses in Type II and Type III hypersensitivity reactions.
7. Explain the concept of molecular mimicry in autoimmune disease.



**SECTION - C**

Answer **any three** of the following questions.

**3x10=30**

8. Explain the second line of body defence mechanism.
9. Discuss the pathways involved in complement activation.
10. Explain the concept of Antibody Specificity.
11. Define autoimmune disorders. Give an examples of systemic autoimmune disorders.
12. Discuss the process and significance of recombinant vaccines.

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