

Q.P. Code :25221

[Time: 3 Hours]

[Marks:80]

Please check whether you have got the right question paper.

- N.B:**
- 1. Question No. 01 is compulsory.**
 - 2. Attempt any 03 question out of remaining 05.**

- Q1.** (A) Describe the Endogenous Pathway of Antigen processing and presentation **10**
(B) Describe in detail the structure of Antibody **10**
- Q2.** (A) What is ELISA? Explain its types in detail. **10**
(B) Describe Haematopoiesis with a labelled diagram **10**
- Q 3.** (A) Explain the recombinant vaccines with proper example. **10**
(B) Explain the process of western blotting **10**
- Q 4.** (A) Explain any one method of complement activation with proper diagram. **10**
(B) What are autoimmune disorders? Explain any one such disorder in detail. **10**
- Q 5.** (A) What are germinal centers? Explain its importance. **10**
(B) What are primary lymphoid organs? With a labeled diagram of thymus explain it. **10**
- Q 6.** Distinguish between: **20**
- Innate immunity and Adaptive immunity
 - MHC Class I and Class II
 - TCR and Immunoglobulins
 - Humoral and cell mediated immunity