

Batch-B.Sc. Biotechnology (H)

Semester-IV

Subject-Immunology

Paper- 11

Full marks = 50

1. Fill in the blanks:- (2x5=10)
  - a) BCR is belongs to ..... immunoglobulin class.
  - b) ..... Is one of the anatomical barrier of innate immune system
  - c) Endogenous Ag are presented by..... molecule
  - d) B<sub>2</sub> microglobulin is a component of.....
  - e) The effector cell of MHC I is.....
  
2. Write short notes on any two of the followings:- (5x2=10)
  - a) Diagrammatically explain the process of Inflammation/Phagocytosis.
  - b) Briefly describe the characteristics of B-cell and T-cell in Immunity.
  - c) Differentiate between Active and Passive Immunity.
  - d) Explain Louis Pasture experiment on anthrax disease?
  
3. Briefly describe any ~~one~~<sup>three</sup> of the followings:- (10x3=30)
  - a) Explain the structural features of class I and class II MHC molecules.
  - b) Describe the APP pathway followed by MHC class II.
  - c) What is Immunity? Briefly describe natural and Adaptive Immunity.