



AJEENKYA

D Y PATIL UNIVERSITY

End Term Examinations (April/May 2019)

School : School of Engineering

Program: M.Tech. Bio-Engineering

Course: Immunotechnology

Course Code: BEN520

Semester: II

Max Marks: 40

Duration (mins) : 120

Q1. Attempt any two

Explain the principle associated with the following antigen-antibody reactions in the diagnosis of diseases: (10)

- (i) Virus neutralization test
- (ii) Agar gel double immunodiffusion precipitation tests
- (iii) Indirect hemmagglutination tests
- (iv) Fluorescent antibody test

Q2. a) Enumerate advantages of using monoclonal antibodies compared to polyclonal antisera.

Or

b) Discuss on formation of antibodies. (5)

Q3. Describe the importance of antigen processing and presentation during an immune response. (5)

Q4. What is hypersensitivity? Explain different types of hypersensitivity with examples. (15)

Q5. a) Write a note on immunotherapy for cancer.

Or

b) Discuss about autoimmunity and add note on its advantages. (5)