



AJEENKYA

D Y PATIL UNIVERSITY

End Term Examination (December 2019)

School: School of Engineering
Course: Molecular Diagnostics

Program: B.Tech. Biotechnology (Medical)
Course Code: BTE406

Semester: VII

Max Marks: 40

Duration (mins): 90

Q1. Answer any eight of the following questions. (Each carries 5 marks)

[40]

- a) Write a note on Flow Cytometry.
- b) Discuss the method of Western blotting.
- c) Elucidate the techniques of Immunofluorescence.
- d) Discuss the role of animal models in immunology.
- e) Describe the use of radiolabeling techniques in detection of antigens or antibodies.
- f) Discuss the role of microarray analysis as a diagnostic tool.
- g) Describe the method of production of gene-targeted knockout mice.
- h) Elucidate the techniques of Northern blotting and Southern blotting.
- i) Write a note on HLA typing.