

[LD 356]

OCTOBER 2013
M.PHARM. DEGREE EXAMS
FIRST YEAR

Sub. Code: 2917

BRANCH VI – PHARMACEUTICAL BIOTECHNOLOGY
PAPER II – PHARMACEUTICAL ASPECTS OF MICROBIAL
AND CELLULAR BIOLOGY

Q.P. Code: 262917

Time: 3 hours

Maximum: 100 marks

I. Elaborate on:

(2x20=40)

1. Describe the synthesis of DNA and Proteins. Add a note on Secondary metabolism and its applications.
2. Describe the various techniques for the cultivation of Primary culture. Write the application of cell culture in Pharmaceutical industry and research.

II. Write Notes on:

(10x6=60)

1. Bio-energetics and Mechanism of ATP synthesis.
2. Fuelling reactions of anaerobic organisms
3. Structure and Reproduction of Bacteria.
4. Auto-immune diseases.
5. Hypersensitivity reactions.
6. Etiology, Pathology and control of any two viral diseases.
7. Mechanism of action of anti-microbial agents.
8. Immunization.
9. Mutagenesis and its applications in strain improvement.
10. Mechanism of microbial pathogenicity.
