

[LD 358]

OCTOBER 2013

Sub. Code: 2919

M.PHARM. DEGREE EXAMS

FIRST YEAR

BRANCH VI – PHARMACEUTICAL BIOTECHNOLOGY

PAPER IV – ADVANCES IN PHARMACEUTICAL BIOTECHNOLOGY

Q.P. Code : 262919

Time : 3 hours

Maximum : 100 marks

I. Elaborate on :

(2x20=40)

1. Explain the various techniques for the manipulation of gene expression and write briefly on the production of Hepatitis-B vaccine by r-DNA technology.
2. Give an account on the different microbial transformations of chiral drugs and steroids.

II. Write notes on :

(10x6=60)

1. Classification of enzymes and the applications of commercial enzymes
2. Gene library
3. Significance of oncogenes
4. Monoclonal antibodies and its applications
5. Immuno-diagnosis of infectious diseases
6. Techniques of DNA sequencing
7. Recombinant vaccines
8. Bioinformatics and drug discovery
9. Chi-square test and Student 't' test
10. Xenobiotics and its biodegradation
