DRR-1828
M. Sc. (Sem. VI) (Int. Biotechnology) Examination
April / May - 2016
Pharmaceutical Biotechnology
(Core - I, Course-I) (Old Course)

Time : 2 Hours] [Total Marks : 50

Instructions :
(1) Fill up strictly the details of signs on your answer book.

Name of the Examination : M. Sc. (SEM. 6) (INT. BIOTECHNOLOGY)
Name of the Subject : PHARMACEUTICAL BIOTECHNOLOGY (OLD)

Seat No.: [Section No. (1, 2, ....): Nil

(2) Figures to the right indicate full marks.
(3) Draw neat and labelled diagrams wherever necessary.

1 Define and discuss in brief any four:

(a) What do you mean by pharmaceutical products?
(b) Why most of the traditional pharmaceuticals are low molecular weight chemicals?
(c) Which characteristic studies of the drug are conducted in clinical pharmacology?
(d) Which enzymes are responsible for proteolysis of drugs?
(e) Enlist the substances regulated by the FDA.

2 Explain in detail any two:

(a) Explain the profile of any three pioneering biopharmaceutical companies.
(b) Write a note on biopharmaceuticals and pharmaceutical products.
(c) Why liposome and vesosome are ideal systems for drug delivery?
3 Explain in detail any two:

(a) Explain in details-the role of RNAi technology to treat the diseases.

(b) Discuss the toxicity studies of drugs.

(c) Explain the various mechanisms of chemical and physical degradation of proteins.

4 Explain in detail any two:

(a) Describe the various pharmacokinetics properties of drugs studied in clinical pharmacology.

(b) Discuss the drug registration in European and Japan.

(c) Explain the New Drug Application (NDA) process.