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BR—158—2016

FACULTY OF SCIENCE

M.Sc. (Fourth Semester) EXAMINATION

OCTOBER/NOVEMBER, 2016

BIOINFORMATICS

Paper (BT-XVII)

(Pharmaceutical Biotechnology)

(Saturday, 19-11-2016)

Time : 2.00 p.m. to 5.00 p.m.

Time—3 Hours

Maximum Marks—50

N.B. :— (i) All questions are compulsory.

(iii) Draw well labelled diagrams wherever necessary.

1. What are secondary metabolites ? Explain their types and applications.15

Or

(a) Describe about microbial resistance to antibiotics. 8

(b) Explain the mode of action of β -lactam antibiotics. 7

2. Describe structure, mechanism of action of antifungal drugs. 15

Or

(a) What are Antiviral agents ? Explain various types. 8

(b) Describe in brief mechanism of action of Anticancer drugs. 7

3. Define protein engineering ? Explain different methods and applications in detail. 15

Or

(a) Explain in detail Edman degradation method. 8

(b) What are protein-protein interaction ? Explain *two* hybrid systems. 7

P.T.O.

4. Explain in detail various drug delivery systems. 15

Or

(a) Give an account of international pharmacopoeia and global regulatory guidelines. 8

(b) Describe toxicity test in animals. 7

5. Write short notes on (any *three*) : 3×5=15

(a) Penicillin

(b) Blood factor VIII

(c) Phage display

(d) Pharmacokinetics

(e) Indian Pharmacopoeia.