

M. Sc. DEGREE EXAMINATION, APRIL 2023
BIOTECHNOLOGY
FOURTH SEMESTER

COURSE : ELECTIVE
PAPER : PHARMACEUTICAL BIOTECHNOLOGY
TIME : 3 HOURS

MAX. MARKS: 100

SECTION – A

ANSWER ALL THE QUESTIONS

(10 x 2 = 20)

1. Differentiate transdermal and intravenous drug delivery.
2. Enumerate the causes of liver toxicity.
3. How is drug potency measured?
4. Write the usage of chitosan.
5. What is sustained release?
6. What is the function of multicore microcapsule?
7. Give the mode of action of tetracyclin.
8. Write the uses of Serratia peptidase.
9. Give the significance of Rituximab.
10. Bring out the importance of toxigenomics.

SECTION – B

ANSWER ALL THE QUESTIONS

(5 x 8 = 40)

11. a. Write a note on pharmacodynamics.
(or)
b. Elaborate on the routes of administration of drugs.
12. a. Illustrate with examples the different serological analysis of drug.
(or)
b. Discuss the various dosage of drugs.
13. a. Describe the production of tablets
(or)
b. Which are the different types of microcapsules?
14. a. Explain the production of Penicillin.
(or)
b. Write a note on recombinant products in pharmaceutical Biotechnology.
15. a. How are clinical trials carried out?
(or)
b. Pharmaceutical industry is booming in India – Justify

SECTION – C

ANSWER ANY TWO QUESTIONS IN ABOUT 1500 WORDS

(2 x 20 = 40)

16. Describe the drug delivery system in detail.
17. Elaborate on the various formulations of drugs.
18. Explain ADMET.
19. Discuss in detail toxicology of drugs.
