Roll No. | | | | | | | | | | | | | Total No. of Pages : 02

Total No. of Questions : 11

M.Sc. (Biotechnology) (2018 Batch) (Sem.-2)

DRUG DISCOVERY AND DEVELOPMENT

Subject Code : MBT-212

M.Code : 76251

Time : 3 Hrs. Max. Marks : 70

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains SEVEN questions carrying SIX marks each and students have to attempt any FIVE questions.**
3. **SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.**

SECTION-A

1. Write briefly :

a) Define pharmacokinetics.

b) Enumerate the principles of toxicology.

c) Define Bioinformatics.

d) Write the importance of GLP.

e) Give the principles of TQM.

f) Write two benefits of ISO 9000.

g) What is HTS?

h) Discuss various drug-drug interactions.

i) List the physicochemical parameters associated with a lead structure.

j) Define lead molecule.

SECTION-B

2. Write a brief note rational drug design.

3. Briefly discuss the importance of structure modifications with examples.

4. Explain various techniques for the identification of lead molecules.

5. Briefly explain the guidelines for preclinical PK studies.

6. Write a short note on GMP.

7. Explain the role of protein binding in drug distribution.

8. Discuss the SOP of conduct for clinical testing.

SECTION-C

9. Write a note on ICH guidelines.

10. Elaborate the concept of QSAR models.

11. Discuss the role of lead optimization in drug discovery.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.