

Seat No. : _____

AG-102

April-2016

M.Sc., Sem.-IV

**510 CHEO : Chemistry (Organic)
(Selected Topics in Medicinal Chemistry)**

Time : 3 Hours]

[Max. Marks : 70

1. Answer the following : **14**

(A) Discuss various steps of drug design.

OR

Write a note on Lead identification and modification.

(B) Write a note on QSAR.

OR

Explain SAR with suitable example.

2. Answer the following : **14**

(A) Write a note on drug absorption and distribution.

OR

Give a brief overview on different routes of drug administration.

(B) Explain in detail - elementary treatment of enzyme stimulation, enzyme inhibition.

OR

Write a note on pharmacodynamics parameter of drug metabolism.

3. Answer the following : **14**

(A) Explain in detail – “Importance of computer in chemistry.

OR

Give brief note on dosage forms and types of dosages.

(B) Write a detail note on important websites for data search in chemistry.

OR

Write a note on Modern methods of pharmaceutical analysis.

4. Answer the following : 14

(A) Write a note on Protein and peptide drug delivery.

OR

Write a note on importance of nanotechnology for protein and peptide delivery.

(B) Write a brief note on nanoparticle targeting.

OR

Write a note on importance of nanotechnology in treatment of cancer and surgery.

5. Answer the following in short : 14

(a) What is drug delivery ?

(b) Define-Nanotechnology.

(c) What is the role of QC ?

(d) Define-drug elimination.

(e) What is pre-clinical stage during drug discovery ?

(f) What is lipophilicity ?

(g) What is biotransformation ?

(h) Define pro-drug.

(i) What is electronic ionization constant ?

(j) What is pharmaceutical analysis ?

(k) Give difference between drug and medicine.

(l) What are drug receptors ?

(m) What are descriptors in QSAR ?

(n) What is nanorobot ?
