



FC-144004 Seat No. _____

M. Sc. (Sem. IV) Examination

June / July - 2021

**MSC0C404 : Selected Topic in Medicinal
Chemistry (Old Course)**

Time : 2 Hours]

[Total Marks : 50

- Instructions :** (1) Answer only **three (3)** questions.
(2) The examination will be for **two (02)** hours.
(3) Q. No. **9** is **compulsory** and carries **14** marks.
(4) Answer any **two** questions from questions
No. **1** to **8**. Each question carries **18** marks.

1 Answer the following question.

- (1) Write a note on "Lead Identification and modification".
- (2) Write a note on "Literature of Medicinal Chemistry".

2 (1) Write a note on Structure Activity Relationship studies.

- (2) Write a note on Pro drugs and soft drugs.

3 Answer the following question.

- (1) Write a note on Drug adsorption and Drug distribution
- (2) Give brief overview on different routes of Drug administration.

4 (1) What is biotransformation? Write a note on biotransformation of drug.

- (2) Describe in brief "Pharmacokinetic parameters of elimination".

5 Answer the following question.

- (1) Give brief on dosage forms and types of dosages.
- (2) Write a note on importance of computer in chemistry.

6 (1) Write a note on modern methods of Pharmaceutical analysis.

- (2) Give brief note on quality control of any drug based on pharmacopoeias.
- (3) Write brief note on development of Indian Pharmacopoeias.

7 Answer the following question.

- (i) Write a note on importance of nanoparticle in treatment of cancer.
- (ii) Write a note on Nanotechnology.

8 (1) Write a note on nanotechnology potential in oncology.

- (2) Write a brief note on nanoparticle targeting.

9 Answer the following in short

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- (1) What is ANDA in drug development?
 - (2) What stands for FDA?
 - (3) What is "Pro drug,"?
 - (4) What is lipophilicity?
 - (5) What is Generic drug?
 - (6) What is Potency?
 - (7) What is EC_{50} ?
 - (8) What is "Induced fit"?
 - (9) What is Pharmaceutical Jurisprudence?
 - (10) What are drug receptors?
 - (11) What is biotransformation?
 - (12) What is Pharmacopoeia monograph?
 - (13) What is HIT molecule?
 - (14) What is combinatorial chemistry?
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