

M. SC. (Organic Chemistry) Sem-III (Choice Based Credit & Grade System) : WINTER - 2018
SUBJECT: MEDICINAL CHEMISTRY

Day: Friday
Date: 26/10/2018

W-2018-0994

Time: 03.00 PM TO 06.00 PM
Max. Marks: 60

N.B:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
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SECTION – I

- Q.1** Answer **ANY THREE** of the following: **(15)**
- a) Define the term – i. Chemotherapy ii. Pharmacy
 - b) Write mechanism of SAR of streptomycin as antitubercular drug.
 - c) Discuss the term Ist line drug and give example.
 - d) Define – Assay. Explain in short the immunological assay
 - e) Discuss – i. Metabolite ii. Antimetabolite
- Q.2** Answer **ANY THREE** of the following: **(15)**
- a) Explain the following in brief i. Chemotherapeutic agent ii. Toxicology
 - b) Write mechanism of SAR of isoniazide
 - c) Discuss the different stages in clinical trials of drugs
 - d) Explain the term- Drugs
 - e) Name the causative agent of tuberculosis, discuss the first line drug used in treatment of tuberculosis

SECTION – II

- Q.3** Solve **ANY THREE** of the following: **(15)**
- a) Enlist various types of phase I type reactions in drug metabolism and write mechanism of any one type in details.
 - b) Define the term and give suitable example
 - i. First generation Cephalosporin
 - ii. Second generation Cephalosporin
 - c) Give the general mechanism of action of any one drug that blocks protein synthesis
 - d) What are β -lactam antibiotics?
 - e) Write note on C-450
- Q.4** Solve **ANY THREE** of the following: **(15)**
- a) What are ionophores? Giving example write the mechanism of action on bacterial cell membrane
 - b) Give schematic representation of peptidoglycan (bacterial cell wall component) synthesis
 - c) Explain the term- Drug metabolism
 - d) What is drug bioinactivation?
 - e) Write the mechanism of glucuronide conjugation

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