

M.Sc.(Chem.) Semester - 4 (CBCS) Examination
March/April - 2025 (As Per Syllabus Year June-2019)
Chemistry of Synthetic Drugs(Core)

Time: 2:30 Hours**Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Que-1(A) Answer the following (04)**
(1) What is Chemotherapy? Give four examples of anticancer drugs with their structures.
- Que-1(B) Answer any two question out of three. (10)**
(1) What are antibiotics? Give synthesis of any one quinolone antibiotics.
(2) Discuss DNA alkylating agents with mechanism
(3) Describe classification of β -lactam antibiotics and give at least three structures of penicillin & Cephalosporium antibiotics.
- Que-2(A) Answer the following (04)**
(1) What are Anti arrhythmic Drugs? Give two examples.
(2) Write the structure of the following diuretic drugs: (i) Indapamide (ii) Chlorthiazide
- Que-2(B) Answer any two question out of three. (10)**
Describe synthesis of following drugs:
(1) Telmisartan
(2) Rosuvastatin
(3) Amlodipine
- Que-3(A) Answer the following (04)**
(1) What are the causes of CNS disorder?
(2) What are neurotransmitters? Give structure of (i) GABA (ii) Dopamine
- Que-3(B) Answer any two question out of three. (10)**
(1) Discuss antidepressant agents and give synthesis of any one antidepressant drug.
(2) What is insomnia? Give synthesis of Indiplon.
(3) Describe synthesis of fexofenadine.
- Que-4(A) Answer the following (04)**
(1) What are NSAIDs? Discuss its classification and mechanism of action.
- Que-4(B) Answer any two question out of three. (10)**
Describe synthesis of following drugs:
(1) Indomethacin
(2) Antipyrine
(3) Sulindac
- Que-5(A) Answer the following (04)**
(1) What is Hyperglycemia? Discuss types of Hyperglycemia.
(2) Explain basal anesthetic drugs.
- Que-5(B) Answer any two question out of three. (10)**
Describe synthesis of following drugs:
(1) Glyburide
(2) Ketamine
(3) Cyclomethycaine
