

M.Sc. Semester - 4 (CBCS) Examination
Oct/Nov -2020 [OLD COURSE]
CHEMISTRY OF SYNTHETIC DRUGS (CORE)

Time: 2:00 Hours**Marks: 56****Instructions:**

1. Figures to the right indicate marks.
 2. There are five questions in the question paper.
 3. Answer any four of the following questions.
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- Q.1 Answer any seven of the following ten questions: (14)
- (1) Give classification of anticancer drug with structure.
 - (2) What are barbiturates? Give general structure and synthesis of any one.
 - (3) Give classification of CNS drugs.
 - (4) Draw a malarial life cycle and discuss it.
 - (5) What are prostaglandins? Give structure of any one.
 - (6) What are NSAIDs? Give one example.
 - (7) Define the terms Bacteriostatics and Bacteriocidal.
 - (8) What are Antiarrhythmic drugs? Give the synthesis of Timolol.
 - (9) Give the classification of antitubercular agents with suitable example of each.
 - (10) Define and classify antibiotics.
- Q.2 Answer any two of the following three questions. (14)
- (1) Give synthesis of Cetirizine, and Fexofenadine.
 - (2) What are Antitussive drugs? Give synthesis of Isoprenaline and Dextromethorphan.
 - (3) Give the synthesis of Diazepam, and Paracetamol.
- Q.3 Answer the following questions: (14)
- (1) Write the full form of HIV and discuss life cycle of HIV.
 - (2) Write the synthesis of Ciprofloxacin and Chlorpropamide
- OR
- Q.3 Answer of the followings: (14)
- (1) What are antidiabetic drugs? Classify them and write the synthesis of any two oral diabetic agents.
 - (2) What are antimalarial drugs? Discuss the synthesis of Gefitinib and Mefloquine.
- Q.4 Answer any two of the followings: (14)
- (1) Discuss about Anticoagulants, give synthesis of Propranolol and Warfarin
 - (2) Write the synthesis of Lamotrigine and Sertraline.
 - (3) Explain Antidiarrhoeal drugs and discuss synthesis of any two.
- Q.5 Answer any two out of the following four questions. (14)
- (1) Give the general synthesis of sulphonamide and write the structure of Lamivudine and Sulfadoxin.
 - (2) Write the synthesis of Bupivacaine and Carbamazepine.
 - (3) Define the term antitubercular drugs. Describe the synthesis of Prazinamide and Ethambutol.
 - (4) What are tranquilizers? Write at least one synthesis of minor and major tranquilizer.
