

M.Sc. Semester - 4 (CBCS) Examination

March/April- 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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Q.1 Answer any seven out of the following ten questions.**[14 Marks]**

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 Marks]**

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 Marks]**

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 the following questions.****[14 Marks]**

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 following three questions.**[14 Marks]**

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 Marks]**

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 Pyrazinamide and Ethambutol.
4. What are tranquilizers? Write at least one synthesis of minor and major tranquilizer.
