647510 **MSC4csdC0210** **Seat No :_____**

M.Sc. Semester - 4 (*CBCS*) Examination
August/September -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.

Q.1 Answer any seven of the following ten questions: (14)

(1) What are broad spectrum antibiotics? Draw correct chemical structure of Ampicillin.
(2) What are vasodilators? Give the structure of Metoprolol.
(3) Differentiate Gram positive and gram negative bacteria.
(4) Define: 'Expectorants' and 'Antiasthematics'.
(5) Write the full form of "HIV" and draw the lifecycle of HIV.
(6) Classify the anititubercular agents with examples.
(7) Give the structure of Busulphan and Tetracycline.
(8) Dram correct chemical structure of any 2 sedative agents with names.
(9) Define & exemplify: Antiinfestive drugs.
(10) What are tranquilizers? Give classification and write the structure of Fluphenazine.

Q.2 Answer any two of the following: (14)

(1) Define and classify anticancer agents. Give the synthesis of any 3 anticancer agents.
(2) Classify Antitubercular agents. Write synthesis of Pyrazinamide, Ofloxacine and Levofloxacine.
(3) Define the terms: Antibitic agents & antifungal agents. Give synthesis of any 3 antifungal agents.

Q.3 Answer any two of the following: (14)

(1) What is diabetes? Give classification of antidiabetic agents. Discuss synthesis of any 3 antidiabetic agents.
(2) What are "Calcium channel blockers"? Give the synthesis of Nifedipine and Amlodipine.
(3) Give the synthesis of Clonidine and Prozosine.

OR

Q.3 Answer any three of the followings: (14)

(1) Explain mechanism of action for Antihistamine drugs. Write synthesis and application of any 2 anti-allergic agents.
(2) Write the synthesis and application of Risperidone and Sertraline.
(3) Write synthesis and application of Chloroquine and Pyrimethamine.
(4) Write synthesis & application of any two antidiarrheal drugs.

Q.4 Answer any three of the followings: (14)

(1) Write synthesis and application of Gabapentin and Lamotrigine.
(2) Write synthesis and application of Acylovir and Lamivudin.
(3) Write synthesis and application of Dapson and progunil.
(4) Write synthesis and application of Valsartan and Enalapril.

Q.5 Answer any two of the following: (14)

(1) Explain the term: NSAID. Write synthesis of Ibuprofen, Acetaminophen and Neproxen.
(2) Write the synthesis of any three Sulpha drugs with their applications.
(3) Discuss synthesis & application of Gatifloxacine and Cefixime in detail.

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