BBB-003-1104006 Seat No. _____

M. Sc. (Sem. IV) (CBCS) Examination

July - 2021

Organo-Pharmaceutical Chemistry

C(OP)-402 : Chemistry of Synthetic Drugs

Faculty Code : 003
Subject Code : 1104006

Time : $2\frac{1}{2}$ Hours] [Total Marks : **70**

Instructions : (1) All Questions carry equal marks
(2) Draw suitable diagram / Scheme wherever necessary.
(3) Attempt any five questions.

1 Answer the following. **14**

(a) Define: 'Decongestant' and 'Mucolytic'.
(b) What is HIV and what are the targets of Anti-HIV drugs?
(c) What are diabetics and types of diabetics?
(d) What are H_2 Receptor antagonists?
(e) Enlist the generation of Cephalosporins with suitable example.
(f) Write the classification of Diuretics and enlist the inorganic compound used as diuretic agents.
(g) Explain the term antipyretics and analgesics?

2 Answer the following. **14**

(a) Write the classification of antimalarial drugs.
(b) What are anti-histamine? Write the structure of any two-histamine drug.
(c) Write the general synthesis methods for sulpha drugs.
(d) Explain the term Hypnotics and sedative.
(e) Classify the anti-tubercular agents and write the structure of any two second line Drug.
(f) Give the synthesis of Ranitidine.
(g) What are anaesthetic drugs? Explain types and give structures of any two of each types?

3 Answer the following. **14**

(a) Classify the anti-diarrheal drugs and write the synthesis of any two of them.

(b) Draw the Malarial cycle and explain it in briefly.

4 Answer the following **14**

(a) Write the synthesis of any two fluroquinolone drugs.

(b) Write the synthesis of 6APA & 7ADCA.

5 Answer the following. **14**

(a) Classify the anticancer agents and write the synthesis of any two anticancer agents.

(b) Classify anti-HIV agents and write the synthesis of any three anti-HIV agents.

6 Answer the following. **14**

(a) Write the synthesis of any three sulpha drugs and its applications.

(b) Give the synthesis of Satranidazole and Tenidazole and its application.

7 Answer the following. **14**

(a) Write the synthesis of Propernolol, Lignocaine and Verapamine.

(b) Give the synthesis of Ibuprofen, Chlordiazepoxide.

8 Answer the following. **14**

(a) Give the classification of antidiabetic agents and write the synthesis of any two hypoglycemic agents.

(b) What are antiarrythmetics and give the synthesis of verapamil and procainamide.

9 Answer the followings. **14**

(a) Explain the term tranquilisers and give synthesis of thiopentone and phenobarbitone.

(b) Define, classify and give the synthesis of any two Antihypertensive drugs.

10 Answer the following. **14**

(a) Give synthesis of Propranolol and atenolol and explain synthesis of lignocaine.

(b) Define the term anti-asthmatic and write the synthesis of Salbutamol and Theophylline.
