

PS-003-1104006

Seat No. _____

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

August - 2020

C(OP)-402: Organo-Pharmaceutical Chemistry (Chemistry of Synthetic Drugs)

Faculty Code: 003

Subject Code: 1104006

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

Instruction: (1) All questions are compulsory & carries equal 14 marks.

(2) Draw suitable diagram / scheme wherever necessary.

1 Answer any **seven** of the following ten questions:

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- (a) Classify the anti-tubercular agents and write the structure of any two second line Drug.
- (b) Write the synthesis of Dicyclomine.
- (c) Define the term Hypnotics and sedative and draw the structure of Thiopentone.
- (d) Define: 'Decongestant' and 'Mucolytic'.
- (e) What you think about broad spectrum antibiotics? Write the structure of any one broad spectrum antibiotics.
- (f) Enlist the Proton-pump inhibitor drug and give structure of Omeprazole.
- (g) Give the classification of Gastrointestinal track drug.
- (h) Write the synthesis of Chlorpronazine.
- (i) What are anti-HIV targest?
- (j) Write the classification of Diuretics and enlist the inorganic compound used as diuretic agents.
- 2 Answer any **two** of the following:

14

- (a) Define and classify anti-cancer agents. Give the synthesis of any one nitrogen-mustered drug.
- (b) Define the term anti-asthmatic and write the synthesis of Salbutamol and Theophylline.
- (c) Write the classification of Cephalosporin drug and give at least one synthesis of first and second generation drugs.

3 Answer any **two** of the following: 14 Write the general synthesis of Fluoro-quinolone drug and discuss its SAR. Classify the anti-diarrheal drug and write the synthesis of any two to them. OR Answer any **two** of the following: 14 3 Write the synthesis of Indinavir and Zidovudine. Write the synthesis of any two antiprotozoal drugs. 4 Give the synthesis and application of the following: 14 Write the general synthesis of Sulpha drugs. (b) Give the classification of anti-fungal drug and write the synthesis of Miconazole and Tolnaftate. Answer the following: (any two) 14 5 (1) Give the synthesis of Ibuprofen and Flubiprofen. (2) Discuss the synthesis of Valdecoxib and & Promethazine. (3) Write the synthesis of Amlodiphine and Propranolol. (4) Enlist anti-malarial drug and give the synthesis of Mefloquine and Pyrimethamine.