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ST-457-2022

FACULTY OF SCIENCE

M.Sc. (Second Year) (Fourth Semester) EXAMINATION MAY/JUNE, 2022

(CBCS Pattern)

ORGANIC CHEMISTRY

Paper-XXIII (CH-544/2A)

(Medicinal Chemistry)

(Wednesday, 6-7-2022)

Time: 2.00 p.m. to 5.45 p.m.

Time— 3.45 Hours

Maximum Marks—75

N.B. := (i) Attempt all questions.

- (ii) Figures to the right indicate full marks.
- 1. Attempt any three of the following:

15

- (a) How are drugs used for testing kidney function?
- (b) Explain the SAR of methyl salicylate and phenyl butazone.
- (c) Explain life cycle of Plasmodia.
- (d) Give synthesis and SAR of methadone.
- (e) Discuss the role of alkylating agents and antimetabolites in the treatment of cancer.
- 2. Attempt any three of the following:

15

- (a) What are sweetening agents? Discuss use of saccharine and p-phenyl urea as sweetening agents.
- (b) How is gastric hyperacidity treated?
- (c) Disuss recent developments in the treatment of AIDS.
- (d) Give synthesis of pamaquine and pyrimethamine.
- (e) Explain the use of stovaine and its analogues as local anaesthetics.
- 3. (a) What are Antihypertensive drugs? How are they classified? Give the synthesis of methyldopa and clonidine.

P.T.O.

(*d*)

 T_{A}

(c)

 T_3

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(iv)	Disorder	in	the	rhythm	and	normal	heart	beat	rate is	called

- (a) Anxiety (b) Ischemia
- (c) Arrhythmia (d) Dismonia
- (v)derivatives are used to observe the location of tumors.
 - (a) Hematoporphyrin (b) Quinoline
 - (c) Pyridine (d) Uranium
- (b) Write short notes on (any two):
 - (i) CNS stimulants
 - (ii) Nitrogen mustards
 - (iii) Publication examination of patent application.