

J-16120107010402000 Seat No. _____

M. P. M. (Sem. IV) (CBCS) Examination June / July - 2019

BP - 402 (T): Medicinal Chemistry - I

Time: 3 Hours] [Total Marks: 75

1 Answer the following questions:

 $10 \times 2 = 20$

- (a) Explain the term ionization and partition co-efficient.
- (b) Enumerate factors affecting drug metabolism.
- (c) Give catabolism of catecholamine.
- (d) Give synthesis of propranolol.
- (e) What is cholinesterase activator? Give its use.
- (f) Write a note on cholinergic receptors.
- (g) Define: General anesthetics. Give its classification.
- (h) Give synthesis of mefenamic acid.
- (i) Differentiate: Narcotic analgesics and NASIDs.
- (j) Give synthesis of phenytoin.
- 2 Answer any two out of the following:

 $2 \times 10 = 20$

- (a) Explain the term: Sedatives and Hypnotics. Give its classification. Give SAR of benzodiazepines and barbiturates.
- (b) What are NASIDs? Give classification and mechanism of action of NASIDs.
- (c) What are sympathomimetic agents? Classify them according to its chemical nature. Give SAR of sympathomimetic agents.

- 3 Answer any seven out of the following: 7×5=35
 - (a) Give classification and SAR of cholinomimetic agents.
 - (b) Give informative note on sympatholytics.
 - (c) Give classification and SAR of parasympatholytics.
 - (d) Give SAR of Phenothiazines.
 - (e) What are anti-convulsants? Give classification and mechanism of action of anti -convulsants.
 - (f) Give Synthesis of Halothane and ketamine hydrochloride.
 - (g) Give SAR of morphine analogues.
 - (h) Write a note on hydrogen bonding and protein binding.
 - (i) Write a note on CYP450.