



MCS-003-045504

Seat No. _____

B. Voc. (Chemical Tech.) (Sem. V) (CBCS) Examination

May / June - 2018

BVCT - 504 : Pharmaceutical (Medicinal) Chemistry

Faculty Code : 003

Subject Code : 045504

Time : 3 Hours]

[Total Marks : 70

Instructions : (1) All questions are compulsory and carry equal marks.
(2) Draw diagram and/or scheme wherever necessary.

- 1 (a) Answer the following questions : 10**
- (1) Define Antimetabolites.
 - (2) Briefly explain importance of heterocyclic chemistry.
 - (3) Define QSAR.
 - (4) What is category of Docusate drug ?
 - (5) Give the names of any two Physicochemical parameters of QSAR.
 - (6) Explain bromination of any 5 membered heterocycle.
 - (7) What is drug ?
 - (8) "Pro-drug is as such pharmacologically active." True or False ?
 - (9) What is point mutation ?
 - (10) What is Medicinal chemistry ?
- (b) Answer the following multiple choice questions : 20**
- (1) Give full form of SAR and SNS.
 - (2) Define Pharmacology and chemotherapy.
 - (3) Give brief introduction of agonist and antagonist of the receptor.
 - (4) What are the different types of Diabetes ? Briefly introduce any one.
 - (5) Draw the structure of Ranitidine.
 - (6) Define sweetening agents. Give any one example of it.

- (7) Draw resonance structure of furan and thiophene.
- (8) What are the meanings of Pharmacokinetics and Pharmacodynamics ?
- (9) Draw the structure of Ranitidine.
- (10) Explain briefly different objectives of Pro-drug.

2 Answer any 4 out of the following 6 questions : **20**

- (1) Write a detailed account on Proton pump inhibitors.
- (2) Synthesis Tolbutamide Drug.
- (3) Classify Antisecretory Drugs.
- (4) Discuss oxidation, reduction and any 3 electrophilic substitution reactions of pyrrole.
- (5) Synthesis Nimesulide Drug.
- (6) Give an account on Antidiarrheals drugs.

3 Answer any 4 out of the following 6 questions : **20**

- (1) Classify Anti-Diabetes Drugs.
- (2) Explain electrophilic substitution reaction of pyridine.
- (3) Classify Analgesics-Antipyretics Drugs.
- (4) Write a note on Lipophilic physicochemical parameter of QSAR.
- (5) Give detailed introduction on Antacids.
- (6) Synthesis Omeprazole Drug.
