



**HCO-003-045504** Seat No. \_\_\_\_\_

**B. Voc. (Chemical Technology) (Sem. V) (CBCS)  
Examination**

**October - 2017**

**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 Pharmacophore.
2. Explain bromination of pyrrole.
3. What are Antimetabolites ?
4. How Mutation occurs ?
5. Briefly explain importance of heterocyclic chemistry.
6. "Anti cholinergic drugs is also knows as Atropine drugs." True or False ?
7. Define medicinal chemistry.
8. Write down the category of Loperamide Drug.
9. What is QSAR ?
10. What is chemotherapy ?

(b) Answer the following questions : 20

1. Give full form of SAR and SNS.
2. What are the different objectives of Pro-drug ?
3. Draw resonance structure of furan and pyrrole.
4. What does peristaltic movement means ? Why is it required ?

5. Define Mutagens. Give any one example of the same.
6. Explain in brief the concept of agonist and antagonist for the receptor.
7. What are the meanings of A and M in ADME Process ?
8. Write the meaning of Stimulant effect and Irritant effect of Drug action.
9. Briefly describe chemical reactivity of furan. (any **two** reactions)
10. Why sweetening agents are used ? Give any one example of the same.

**2** Answer any **four** out of the following **six** questions : **20**

1. Write a note on Neuron with appropriately labeled diagram.
2. Give synthesis of Omeprazole drug.
3. Discuss oxidation, reduction and any three electrophilic substitution reactions of pyrrole.
4. Give Synthesis of Tolbutamide drug.
5. Write detailed note on SAR of the Salicylic acid derivatives.
6. Classify Antisecretory Drugs.

**3** Answer any **four** out of the following **six** questions : **20**

1. Give detailed account on Antacids.
2. Write a note on Hydrophobic Parameters of QSAR.
3. Give Synthesis of Ranitidine Drug.
4. Explain electrophilic substitution reaction of pyridine.
5. Classify Anti-Diabetic Drugs.
6. Classify Analgesics-Antipyretics Drugs.