



HCM-003-047502

Seat No. _____

**B. Voc. (Pharma. Ana. & QA) (Sem. V)
(CBCS) Examination**

October – 2017

BVPAQA-502 : Medicinal Chemistry - I

Faculty Code : 003

Subject Code : 047502

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) What is Pharmacophore?
- (2) What is Frame mutation?
- (3) What does Pharmacodynamics means?
- (4) "Anti cholinergic drugs is also known as Atropine drugs." True or False?
- (5) Give full form of SAR.
- (6) What is medicinal chemistry?
- (7) H.pylori ulcer disease occur due to _____.
(Bacteria, Virus, Actinomycets or Fungi)
- (8) What are Antimetabolites?
- (9) What is Angina Pectoris?
- (10) Define Drug.

(b) Answer the following questions : 20

- (1) Define mutagen. Give any two examples of mutagen.
- (2) Give short introduction of the concept of agonist and antagonist for the receptor.

- (3) How insulin Control the Glucose level in the body?
- (4) Give full form of PNS and SNS.
- (5) Give meanings of Affinity and Efficacy.
- (6) Define sweetening agents. Give any two examples of Artificial Sweeteners.
- (7) Give classification of Anti-diarrheal drugs with two examples of each class.
- (8) Give different objectives of Pro-drug.
- (9) Draw a labeled diagram of Neuron.
- (10) Write the meaning of replacement effect and irritative effect of the drug action?

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

- (1) Give classification of anti-arrhythmic drugs.
- (2) Write a detailed note on Hansch Equation.
- (3) Classify Antisecretory Drugs.
- (4) Give Synthesis of Ranitidine drug.
- (5) Synthesis Warfarin Drug.
- (6) Write a note on H₂ Anti histamine drugs.

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

- (1) Give Synthesis of Nifedipine Drug.
- (2) Explain Antacids.
- (3) Classify of Anti-Diabetes Drugs.
- (4) Write the category, mechanism of action, structure and side effects of Omeprazole drug.
- (5) Give a note on Anti hyperlipidemic agents.
- (6) Classify laxative drugs.