

Seat No.: _____

Number of printed pages: 02

[54]

SARDAR PATEL UNIVERSITY
M. Sc. Pharmaceutical Chemistry (Sem-III) Examination
Tuesday, 25/10/2016; Time-2:00 PM to 5:00 PM
SUBJECT CODE: PS03CPCH02
SUBJECT TITLE: Medicinal Chemistry-II

Maximum Marks: 70

- Note: (1) All questions are compulsory.
(2) Figure to right indicates total marks of question.

Q-1 Choose the correct option for the following: 1 × 8

1. Barbiturates primarily act on
 - a. Nicotinic receptor
 - b. Muscarinic Receptor
 - c. GABA receptor
 - d. None
2. The example of inhalation anesthetics is
 - a. CO₂
 - b. H₂O
 - c. CO
 - d. N₂O
3. The major metabolic product of Mephensin is
 - a. α-(o-toloxo)-lactic acid
 - b. β-(o-toloxo)-lactic acid
 - c. 2-Methyl phenol
 - d. None
4. The three classical opioid receptors are
 - a. α, β, γ
 - b. μ, κ, δ
 - c. μ, κ, α
 - d. μ, κ, α₁, α₂
5. Inflammation is defined as the series of changes that occur in living tissues having
 - a. Injury
 - b. Cut
 - c. Wound
 - d. Above all
6. Eicosanoids are derived from
 - a. Omega-3 (ω-3)
 - b. Omega-6 (ω-6)
 - c. Both a & b is correct
 - d. None
7. Atropine is absorbed rapidly from
 - a. Cardiovascular
 - b. Buccal
 - c. Parenteral
 - d. GI tract
8. Para sympathomimetic drugs are those which cause
 - a. Nicotinic action
 - b. Enhance Therapeutic Action
 - c. Both a & b is correct
 - d. Can't say

Q-2 Answer the following (Any Seven). 2 × 7

1. Describe the tranquilizers.
2. Give the action of sedatives.
3. Describe the stages of anesthesia.
4. Give the classification of local anesthetics.

5. Name and draw the structure of methadone.
 6. Draw the structure of Ibuprofen.
 7. Describe anti-pyretic analgesic with suitable example.
 8. Give the therapeutic uses of parasymptholytics.
 9. Describe autonomous nervous system.
- Q-3**
- A. Give the classification of anticonvulsant. Describe the mode of action and SAR of barbiturates. 6
 - B. Discuss the types and mode of action of general anesthetics. Give the synthesis, property and uses of ether. 6
- OR**
- B. Write a note on Alzheimer's Disease. 6
- Q-4**
- A. Give the synthesis properties and mode of action of Caffeine. 6
 - B. Describe the General mode of action of opioid analgesics with the SAR of Morphine. 6
- OR**
- B. Write a note on Skeletal Muscle relaxants. 6
- Q-5**
- A. Write the classification of NSAID. Give the metabolism and SAR of salicylates. 6
 - B. Write a note on eicosanoids and their synthesis inhibitors. 6
- OR**
- B. Write a note on Anti-allergic drug with classification. 6
- Q-6**
- A. What is sympathomimetic drug? Give the synthesis and mode of action of Ephedrine. 6
 - B. What is Parasympathomimetics. Give the synthesis and mode of action of carbachol. 6
- OR**
- B. Write a note on Sympathomimetics. 6
