

Duration: 3 Hrs

Total marks: 75

N.B. : 1. All questions are compulsory
2. Figures to right indicate full marks

Q. 1. Multiple Choice Questions (MCQs) (Answer all the questions) 20

1. The clearance of a drug is _____
 - a. the theoretical volume of CSF from which the drug is completely removed in unit time.
 - b. the theoretical volume of plasma from which the drug is completely removed in unit time.
 - c. the time after which the drug is completely removed from the body.
 - d. the time after which the drug is completely removed from the site of action.

2. Aqueous Solubility, Concentration, Vascularity, and Route of Administration are factors affecting _____

a. Distribution	b. Excretion
c. Absorption	d. Metabolism

3. A receptor which itself has enzymatic property is _____

a. Insulin receptor	b. Progesterone receptor
c. Thyroxine receptor	d. Glucagon receptor

4. An undesirable effect of a drug that occurs at therapeutic doses and can be predicted from its pharmacological actions is called _____.

a. Side effect	b. Toxic effect
c. Allergic reaction	d. Idiosyncrasy

5. The cardiac muscarinic receptors _____.

a. Are of the M1 subtype	b. Are of the M2 subtype
c. Are selectively blocked by pirenzepine	d. Function through the PIP2----IP3/DAG Pathway

6. The following is a selective α_2 adrenoceptor antagonist

a. Prazosin	b. Phentolamine
c. Yohimbine	d. Clonidine

7. The _____ drug is the inhibitor of aldehyde dehydrogenase

a. Disulfiram	b. Ethanol
c. Acomprostate	d. Methanol

8. The phenytoin gives _____ adverse effect in fetous .

a. Erythroblastosis Fetalis	b. Foetal hydantoin syndrome
c. Down syndrome	d. Wernick's encephalopathy

19. Adrenaline injected with a local anaesthetic:
- a. Reduces local toxicity of the local anaesthetic
 - b. Reduces systemic toxicity of the local anaesthetic
 - c. Shortens duration of local anaesthesia
 - d. Makes the injection less painful
20. Which of the following general anesthetics belongs to inhalants?
- a. Ketamine
 - b. Thiopental
 - c. Propofol
 - d. Desflurane

2 Long Answers (Answer 2 out of 3)

20

- A. What is biotransformation? Discuss Phase I reactions. Add a note on enzyme induction.
- B. Classify anticholinergics. Give the detailed account of any two classes. Write the uses of anticholinergics.
- C. Discuss in detail pharmacotherapy of Parkinsonism.

3 Short Answers (Answer 7 out of 9)

35

- A. Give the advantages and disadvantages of the parenteral route.
- B. Classify the receptors along with the examples. Explain in brief ion channel receptors.
- C. Write a note on drug interactions
- D. Define myasthenia gravis. Enlist the drugs used in its treatment
- E. Classify local anaesthetics. Discuss the mechanism of action and routes of administration.
- F. Give mechanism of action of sodium valproate and lithium
- G. Give detailed note on halogenated anesthetics
- H. Explain SSRIs in detail.
- I. Write a note on Opioid antagonists
