



Name :

Roll No. :

Invigilator's Signature :

CS/B.Pharm/SEM-6/PT-608/2010
2010
PHARMACOLOGY

Time Allotted : 3 Hours

Full Marks : 70

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

GROUP – A

(Multiple Choice Type Questions)

1. Choose the correct alternatives for any *ten* of the following :

10 × 1 = 10

- i) Enalapril differs from captopril in that
 - a) It is less liable to cause abrupt first dose hypotension
 - b) It has a shorter duration of action
 - c) It blocks angiotensin II receptors
 - d) It does not produce cough as a side effect.
- ii) Long term ACE inhibitor therapy may retard the progression of
 - a) Diabetic nephropathy
 - b) Diabetic retinopathy
 - c) Hypertensive nephropathy
 - d) All of these.

6327

[Turn over



- iii) Megaloblastic anemia occurs due to deficiency of
- a) Vitamin D
 - b) Vitamin C
 - c) Folic acid
 - d) Vitamin B1.
- iv) Codeine is used clinically as
- a) Analgesic
 - b) Antitussive
 - c) Antidiarrhoeal
 - d) All of these.
- v) Most common adverse effect of oral iron therapy is
- a) gastric irritation
 - b) constipation
 - c) thrombocytopenia
 - d) both (a) and (b).
- vi) Protamine sulfate is used to
- a) neutralise heparin
 - b) activate oral anticoagulants
 - c) activate Heparin
 - d) both (b) and (c).
- vii) Ondansetron is
- a) 5 HT₃ antagonist
 - b) Antiemetic drug
 - c) both of these
 - d) none of these.
- viii) Ileum of Guinea pig is highly sensitive to
- a) Serotonin
 - b) Ach
 - c) Histamine
 - d) Oxytocin.
- ix) Reflex bronchoconstriction is most likely to occur with which of the following form of inhaled antiasthma medication ?
- a) Dry power rotacap
 - b) Nebuliser
 - c) Nebuliser with spacer
 - d) Metered dose spray of drug in solution.

CS/B.Pharm/SEM-6/PT-608/2010



- x) To be useful inhaled glucocorticoid the drug should have
- low oral bioavailability
 - high oral bioavailability
 - prodrug character
 - additional bronchodilator activities.
- xi) Sedative action of which of the following drugs is minimum ?
- Chlorpheniramine
 - Cetirizine
 - Diphenhydramine
 - Pheniramine.
- xii) Action of bradykinin include the following, *except*
- bronchoconstriction
 - increase in capillary permeability
 - fall in blood pressure
 - cardiac depression.

GROUP – B

(Short Answer Type Questions)

Answer any *three* of the following. $3 \times 5 = 15$

- Write down the principle and assay method of oxytocin. 5
- Classify shock and its treatment. 5
- Briefly describe the various types of serotonin receptors. 5
- Mention the functions of vitamin B₁₂ and Folic acid. 5
- What are plasma expanders ? Classify them. Discuss about Dextran40. 1 + 2 + 2



GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following. $3 \times 15 = 45$

7. a) What are the Pharmacological actions of Calcium Channel Blockers on Cardiovascular System ?
b) What is the pathophysiology of Cardiac Arrhythmia ?
c) What is Angina pectoris ? Write the classification of Anti-anginal drugs. $5 + 5 + 5$
8. a) What are bronchodilators ? How do bronchodilators act as anti-asthmatics ?
b) What are the various indications for Sodium Chromoglycate ?
c) Write a short note on mucolytics and their uses. $7 + 3 + 5$
9. Define Atherosclerosis. Classify antihyperlipidemic drug. Write the MOA, ADME, ADR & use of Rasuvastatin. What are its advantages from other Statin group ? $2 + 3 + 8 + 2$
10. Classify anticoagulant drugs. Mention pharmacological actions, adverse effects and uses of heparin. 15
11. What are diuretics ? Give the classification of diuretics. Describe in brief the mechanism of action of furosemide, acetazolamide and amiloride. 15