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 : $10 \times 1 = 10$

   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.

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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) thromobocytopenia 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 HT_3 antagonist b) Antiemetic drug

c) both of theese d) none of these.

viii) Ileum of Guinea pig is highly sensitive to

a) Sertonin 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.

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x) To be useful inhaled glucocorticoid the drug should have

a) low oral bioavailability

b) high oral bioavailability

c) prodrug character

d) additional bronchodialator activities.

xi) Sedative action of which of the following drugs is minimum ?

a) Chlorpheniramine b) Cetirizine

c) Diphenhydramine d) Pheniramine.

xii) Action of bradykinin include the following, *except*

a) bronchoconstriction

b) increase in capillary permeability

c) fall in blood pressure

d) cardiac depression.

GROUP – B

(Short Answer Type Questions)

Answer any *three* of the following. 3 × 5 = 15

2. Write down the principle and assay method of oxytocin. 5

3. Classify shock and its treatment. 5

4. Briefly describe the various types of serotonin receptors. 5

5. Mention the functions of vitamin B_{12} and Folic acid. 5

6. What are plasma expanders ? Classify them. Discuss about Dextran40. 1 + 2 + 2

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GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following. 3 × 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 bronchodialators ? How do bronchodilators act as anti-asthmatics ?

   b) What are the various indications for Sodium Chromoglycate ?

   c) Write a short note on mucolytis 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

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