



Name :

Roll No. :

Invigilator's Signature :

CS/B.Pharm(OLD)/SEM-6/PT-608/2012

2012

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) Inhibition of angiotensin converting enzyme
 - a) prevents the conversion of renin to angiotensin I
 - b) improve renal function
 - c) increase aldosterone production
 - d) is beneficial in heart failure.
- ii) Following anti-dysrhythmic drugs act by
 - a) Lignocaine — membrane stabilizing activity
 - b) Class III drugs — reduce the activity of the sympathetic nervous system
 - c) Class IA drugs — shorten refractoriness
 - d) Class II drugs — block slow calcium channels.

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[Turn over



- iii) Antidote of oral anti-coagulant is
- | | |
|---------------|----------------------------|
| a) Vitamin C | b) Vitamin K |
| c) Folic acid | d) Vitamin B ₁₂ |
- iv) Which type of diuretics contra-indicated in pregnancy induced hypertension ?
- | |
|-----------------------------------|
| a) Potassium sparing diuretics |
| b) Osmotic diuretics |
| c) Thiazide diuretics |
| d) Carbonic anhydrase inhibitors. |
- v) Which of the following drugs acts as Potassium channel opener ?
- | | |
|----------------------|---------------|
| a) Phenoxy benzamine | b) Losartan |
| c) Methyl dopa | d) Minoxidil. |
- vi) All of the following are thrombolytics *except*
- | | |
|------------------|----------------|
| a) streptokinase | b) ticlopidine |
| c) urokinase | d) alteplase. |
- vii) Which of the following antitussives has weak local anaesthetic and anticholinergic action ?
- | | |
|--------------|--------------------|
| a) Noscapine | b) Pipazethate |
| c) Oxeladin | d) Carbetapentane. |
- viii) Which of the following drugs has selective 5-HT₃ antagonistic activity ?
- | | |
|----------------|--------------------|
| a) Ondansetron | b) Clozapine |
| c) Pizotifen | d) Cyproheptadine. |

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(Short Answer Type Questions)

2. Write down the synthesis and metabolism of histamine. What is triple response ? Why are 2nd generation H1 antagonists preferred than 1st generation ?

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3. What is bronchial asthma ? Classify drugs used for the management of bronchial asthma.
4. Write a note on calcium channel blockers.
5. Define cardiac glycosides. Write about the mechanism of action digitalis.
6. What do you mean by body fluid ? Discuss about the 'fluid and electrolyte balance' in case of urinary system.

GROUP – C

(Long Answer Type Questions)

Answer any *three* questions.

3 × 15 = 45

7. Define bio-assay. Mention its advantages & disadvantages. Write about digitalis bio-assay.
8. What are diuretics ? Classify diuretics. Discuss about loop diuretic.
9. What do you mean by hypertension ? Classify anti-hypertensive drugs. Write down the mechanism of action, pharmacological action, indication, side effect and toxicity of ACE inhibitors.
10. Define hemostatics and coagulants. Discuss different types of hemostatics and coagulation.
11. Define Arrhythmia, Bradycardia, Tachycardia. Classify anti-arrhythmic drugs. Mention the mode of action of Na⁺ Channel Blocker for the treatment of arrhythmia of heart.