



Name : .....

Roll No. : .....

Invigilator's Signature : .....

**CS / B.PHARM(NEW) / 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) Most common adverse effect of oral iron therapy is
    - a) Gastric irritation
    - b) constipation
    - c) Thrombocytopenia
    - d) none of these.
  - ii) Protamine sulphate is used to
    - a) Acid-base neutralization of heparin
    - b) Activate oral anticoagulants
    - c) Activate dicoumarol
    - d) None of these.
  - iii) The electrophysiological effects of digitalis on purkinje fibre include the following *except*
    - a) Decrease in slope of phase-0 depolarization
    - b) Increase in rate of phase 4 depolarization
    - c) Increase in slope of phase-0 depolarization
    - d) Decrease in rate of phase-4 depolarization.



- iv) Loss of taste sensation is the side effect of the following drugs
- a) Captopril
  - b) Verapamil
  - c) Ferrous sulphate
- v) Aldosterone release is stimulated by
- a) Angiotensin-I                      b) Angiotensin-II
  - c) Angiotensin-II                      d) Both (b) and (c).
- vi) Angiotensin converting enzyme is involved in the conversion of
- a) Angiotensin I to angiotensin II
  - b) Angiotensionogen to Angiotensin I
  - c) both (a) and (b)
  - d) none of these.
- vii) Which of the following is drug of choice in acute iron poisoning
- a) Bemegride                      b) Naloxone
  - c) Desferrioxamine                      d) Thiazide diuretics.
- viii) Which of the following drugs is a selective reversible inhibitor of cysteinyl leukotriene-1 receptor
- a) Zafirlukast                      b) Zileuton
  - c) Cromolyn                      d) Omalizumab.
- ix) Which of the following drugs could significantly impair the ability to drive an automobile
- a) Ergotamine                      b) Fexofenadine
  - c) Diphenhydramine                      d) Sumatriptan.



- x) Mifepristone may be used for
- a) Abortion
  - b) migraine headache
  - c) Motion sickness
  - d) Both (a) and (b)
- xi) Which of the following NSAID is a prodrug
- a) Aspirin
  - b) sulindac
  - c) Indomethacin
  - d) Phenylbutazone.

**GROUP – B**

**( Short Answer Type Questions )**

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

2. Define cardiac glycosides. Write about mechanism of action of digitalis.
3. Define shock and mention it's treatment.
4. Briefly discuss the pathophysiological role of 5 HT receptors.
5. Write a short note on acute iron poisoning.
6. How can ACE inhibitors act as antihypertensive agents ? Explain.

**GROUP – C**

**( Long Answer Type Questions )**

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

7. Define angina pectoris. What are the different types angina ? Classify antianginal drugs with example. How nitrates relief angina ?

1 + 4 + 4 + 6



8. Define bioassay. Write about advantages and disadvantages of bioassay. How will you perform four point bioassay of acetyl choline using frog ?  
2 + 3 + 2 + 8
9. a) What is pathophysiology of cardiac arrhythmia ?  
b) Write mechanism of action, side effects and uses of Nifedipine.  
8 + 7
10. Define diuretics. Classify them with example. Write down the mechanism of action of thiazide diuretics. Why is spironolactone termed as 'potassium sparing diuretics' ?  
1 + 5 + 6 + 3
11. Write down the biosynthesis and pharmacological action of prostaglandin and histamine.  
8 + 7
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