	Utech
Name :	
Roll No.:	A Grand (V Knowledge End Excident)
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.

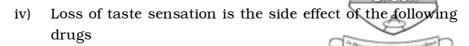
GROUP - A

(Multiple Choice Type Questions)

- 1. Choose the correct alternatives for any ten of the following : $10 \times 1 = 10$
 - 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.

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- 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) Erogotamine
- b) Fexofenadine
- c) Diphenhydramine
- d) Sumatriptan.

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- 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

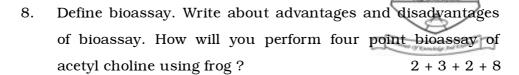
(Long Answer Type Questions)

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

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- 9. a) What is pathophysilogy 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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