	Utech
Name:	<u>A</u>
Roll No.:	In Spanning (VE) may being a Teach of the
Invigilator's Signature :	

CS / B.PHARM (N) / SEM-6 / PT-608/ 2011 2011

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) Diuretics of choice in uncomplicated hypertension is
 - a) Thiazide diuretics
- b) Furosemide
- c) Spironolactone
- d) all of these.
- ii) Which of the following is an anticoagulant?
 - a) Lepuridin
- b) Fibrinogen

c) Rutin

- d) Menaquinone.
- iii) Montelukast blocks the action of which of the following autacoid ?
 - a) Prostacyclin
 - b) Platelet activating factor
 - c) Leukotriene B₄
 - d) Leukotriene C₄/D₄.

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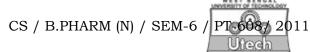


- iv) Which of the following is type IV anti-arrhythmic drug?
 - a) Quinidine
- b) Propranolol
- c) Diltiazem
- d) None of these.
- v) Select the correct statement about salmeterol:
 - a) It is a long acting selective β_2 agonist bronchodilator
 - b) It is a bronchodilator with anti-inflammatory property
 - c) It is a β blocker that can be safely given to asthmatics
 - d) It is an antihistaminic with mast cell stabilizing property.
- vi) Which of the following vasodilator(s) act(s) by opening K^+ channels in the vascular smooth muscle?
 - a) Dipyridamole
- b) Minoxidil
- c) Diazoxide
- d) both (b) and (c).
- vii) Cardiac glycoside Digoxin binds to
 - a) Na Ca 2+ exchanger
- b) Na⁺K⁺ ATPase
- c) Ca²⁺ATPase
- d) none of these.
- viii) Glyceryl trinitrate acts as an antianginal drug by

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- a) Preload reduction
- b) Afterload reduction
- c) Redistribution of coronary flow
- d) all of these.

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- ix) Antihypertensives to be avoided during pregnancy are
 - a) Diuretics
 - b) ACE inhibitors
 - c) nonselective β blockers
 - d) all of these.
- x) Which one of the following has both the antihistaminic as well as mast cell stabilizing activity?
 - a) Nedochromil sodium
 - b) Ketotifen
 - c) Zileuton
- d) Sodium chromoglycate.
- xi) At equinatriuretic doses which diuretic causes the maximum K^{\dagger} loss is
 - a) Furosemide
- b) Hydrochlorothiazide
- c) Acetazolamide
- d) Amiloride.
- xii) Glyceryl trinitrate is administered by the following routes *except*
 - a) Oral

- b) Sublingual
- c) Intramuscular
- d) Intravenous.

GROUP - B

(Short Answer Type Questions)

Answer any *three* of the following.

 $3 \times 5 = 15$

- 2. Write a note on the pathophysiology of cardiac arrythmia?
- 3. Discuss electrolyte imbalance and its pharmacotherapy.
- 4. Classify antihyperlipedemic drugs. Write down the mechanism of action of the Gemfibrozil. 2 + 3
- 5. Write a note on antiplatelet drugs.
- 6. Write a note on expectorants.

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GROUP - C

(Long Answer Type Questions)

Answer any three of the following.

 $3 \times 15 = 45$

- Explain the process of absorption, transportation and storage of iron in our body. Describe the condition which occurs in case of iron deficiency. Discuss the pharmacotherapy of iron deficiency.
- 8. a) Write in brief about actions and pathophysiological roles of Prostaglandin.
 - b) Classify 5-HT receptors.
 - c) Write a short note on the rapeutic uses of Histamine antagonists. 7 + 3 + 5
- 9. a) How will you perform 4-point bioassay of acetylcholine using rat colon preparation?
 - b) Write about mechanism of action, adverse effects, drug interactions and therapeutic effects of Warfarin. 7 + 8
- 10. a) Write the causes of hypertension.
 - b) Classify the drug use for hypertension.
 - c) Write the action of β bloker & ACE inhibitor for treatment of hypertension with example. 3 + 5 + 7
- 11. Explain the pathophysiology of asthma. Mention the factors which can aggravate asthma. What is / are the approach(es) for treatment of asthma? Discuss the drugs used for the treatment of bronchial asthma.

 4 + 3 + 2 + 6

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