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Invigilator's Signature:	

CS/B.PHARM (OLD)/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]

	(Multiple Choice Type Questions)						
1.	Choose the correct alternatives for any <i>ten</i> of the following: $10 \times 1 = 1$						
					10 \ 1 10		
	i)	i) Atheromatous plaque is formed in					
		a)	Epilepsy	b)	Alzheimer's disease		
		c)	Parkinson's disease	d)	Myocardial infarction.		
	ii)) Loss of taste sensation is the side effects of					
		a)	Prazosin	b)	Verapramil		
		c)	Clonidine	d)	Captopril.		
	prophylactic agent that						
		appears to stabilize mast cell?					

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b)

d)

Aminophylline

Salmeterol

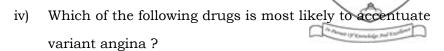
a)

c)

Ipratopium

Cromolyn.

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- a) Verapramil
- b) Propranolol
- c) Atenolol
- d) Dipyridamol.
- v) The electrophysiological effects of digitalis on Purkinje fibres include the following *except*
 - a) Enhancement of resting membrane potential
 - b) Decrease in the slope of phase-0 depolarization
 - c) Increase in the rate of phase 4 depolarization
 - d) Abbreviation of action potential duration.
- vi) Cyproheptadine is a
 - a) $5 HT_{2A}$ antagonist
- b) H_2 antagonist
- c) 5-HT agonist
- d) None of these.
- vii) Prostaglandin analogue Misoprostol, is used in
 - a) Post-partrum haemorrhage
 - b) Cervical priming
 - c) Gastric ulcer
 - d) Glaucoma.
- viii) Respiratory stimulants are known as
 - a) Analeptics
- b) Thymoleptics
- c) Thymotropics
- d) Nootropics.
- ix) COX-2 pathway is
 - a) constitutive
- b) inducible
- c) reducible
- d) competitive.

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- x) Which of the following is true for anti-asthmatic drug Salbutamol?
 - a) It is a β 2 agonist
 - b) It is also known as Albuterol
 - c) Both (a) and (b)
 - d) None of these.
- xi) The most potent and most efficacious LDL lowering agent is
 - a) Lovastatin
- b) Simvastatin
- c) Provastatin
- d) Atrovastatin.
- xii) Action of bradykinin includes 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.

- $3 \times 5 = 15$
- 2. Write down the principle and assay method of insulin.
- 3. What is hyperlipidemia ? Classify anti-hyperlipidemic drugs according to their mechanism of action.
- 4. Write a short note on anti-platelet drugs.
- 5. Enumerate the drugs used to treat bronchial asthma.
- 6. Briefly discuss the pharmacology of Histame.

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GROUP - C

(Long Answer Type Questions)

Answer any three of the following.

 $3 \times 15 = 45$

- 7. a) What are the various complications of High ceiling Diuretic therapy?
 - b) Explain the mechanism of action of Spironolactone and Acetazolamide.
 - c) Classify weak or adjunctive diuretics. 5 + 5 + 5
- 8. a) Explain the pharmacological actions of 5-HT.
 - b) What are the various clinical uses of Prostaglandin and its analogues?.
 - c) Write down the pathway of generation of Plasma kinins.

5 + 5 + 5

- 9. a) What is Angina pectoris?
 - b) What are the types of Angina?
 - c) Classify antianginal drugs.
 - d) Discuss about the Nitrates and β -blocker used in the management of Angina pectoris. 2+2+2+9
- 10. a) What are haematinics?
 - b) Name various formulation of iron available as haematinics.
 - c) Classify coagulants and anticoagulants.

2 + 4 + 9

11. Define hypertension. Classify Anti-hypertensive drugs. Write down the role of ACE inhibitor for controlling hypertension.

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