Seat No.: \_\_\_\_

Q.1

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Q. 6

Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY** M. PHARM. - SEMESTER – I • EXAMINATION – WINTER 2012

## Subject code: 910203 Subject Name: Advances in Pharmacology Time: 10.30 am - 01.30 pm Instructions:

1. Attempt any five questions.

## Date: 11/01/2013 Total Marks: 80

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2. 3.	Make suitable assumptions wherever necessary. Figures to the right indicate full marks.
(a)	Write adrenergic receptor agonists and antagonists with their therapeutic uses.
(b)	What is Glaucoma? Give recent advances in pharmacotherapy of Glaucoma.
(c)	Write clinical applications and adverse effects of serotonin agonists.
(a)	Mention reversible cholinesterase inhibitors and write their therapeutic uses and side effects.
(b)	Classify anti-fungal drugs and describe in detail about Azoles.
(c)	Discuss the current approaches in the management of Lower respiratory tract infection.
(a)	Write a note on immunosuppressants with their therapeutic indications along with adverse effects.
(b)	Give the mechanism of action of:
	i. Tizanidine in multiple sclerosis
	ii. Sibutramine as appetite suppressants
	iii. Methyldopa in hypertension
	iv. Dantrolene sodium in spastic cerebral palsy
	v. Ergotamine in migraine
(c)	Write a note on advances in pharmacotherapy of tuberculosis.
(a)	Give a diagrammatic representation of the synthesis of eicosanoids. Describe the therapeutic applications of prostaglandins.
(b)	Explain Growth factor analogs as synthetic antimicrobial drugs.
(c)	Describe the pharmacological actions and therapeutic uses of non- depolarizing skeletal muscle relaxants.
(a)	Enumerate Tetracyclines. Outline their mechanism of action, therapeutic uses and adverse effects.
(b)	Explain why -
	I. Propranolol is misused by pistol marksmen and snooker players.
	II. Clavulanic acid combined with amoxicillin.
	III. Atropine substitutes are used in drug induced Parkinsonism.
	IV. Adrenaline is the drug of choice in anaphylactic shock.
	V. Ethambutol is best avoided in children.
(c)	Discuss the principles of safe and effective antibacterial drug therapy.
(a)	Define antimicrobial resistance and discuss methods for its prevention.
(b)	Write a brief note on Natural products as anticancer drugs.
(c)	Enumerate semi synthetic penicillins. Give their therapeutic uses.

- (c)Enumerate semi synthetic penicillins. Give their therapeutic uses.05Q.7(a)Discuss the current approaches in the management of sexually transmitted disease.06
  - (b) List indications of Metronidazole. Specify the condition where it is combined with 05 diloxanide furoate. What is the rationale for the combination?
  - (c) Classify Antihistamines. Write the pharmacological actions and therapeutic uses of H1-receptor antagonists.

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