

GUJARAT TECHNOLOGICAL UNIVERSITY**M.PHARM- SEM-I-EXAMINATION – JULY 2012****Subject code: 910203****Date: 07/07/2012****Subject Name: Advances in Pharmacology****Time: 02:30 pm – 05:30 pm****Total Marks: 80****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q.1	(a) Enlist muscarinic receptors and their agonists. Write their therapeutic uses.	06
	(b) Write a note on NA as a neurotransmitter.	05
	(c) Write therapeutic uses of adrenergic agonists with suitable examples.	05
Q.2	(a) Discuss biochemical mechanisms of resistance to antibiotics.	06
	(b) Distinguish between: (i) Ciprofloxacin and tetracyclin (ii) Ivermectin and praziquantel	05
	(c) Write M/A of flouroquinolones and cotrimoxazole.	05
Q.3	(a) Discuss recent trends and developments in the treatment of malaria.	06
	(b) Discuss pharmacotherapy of tuberculosis.	05
	(c) Discuss pharmacotherapy of AIDs.	05
Q.4	(a) Classify immunosuppressants. Write M/A and adverse effects of ciclosporin.	06
	(b) Discuss anticancer approaches used for cancer therapy.	05
	(c) Discuss M/A and unwanted effects of taxanes.	05
Q.5	(a) Explain mechanism of action of antimicrobial agents interfering with the synthesis of bacterial cell wall giving examples.	06
	(b) Discuss M/A, therapeutic uses and adverse effects of azoles.	05
	(c) Discuss M/A and uses of azithromycin and clofazimine.	05
Q.6	(a) Write adverse effects of aminoglycoside antibiotics and interferon alpha-2a.	06
	(b) Enlist 5-HT receptor types and their modulators. Discuss therapeutic uses of 5-HT R antagonists.	05
	(c) Describe clinical uses and unwanted effects of Beta-blockers.	05
Q.7	(a) Enlist prostanoids and their clinical uses.	06
	(b) Explain pharmacological actions of glucocorticoids and their mechanism of action.	05
	(c) Write therapeutic uses of anticholinesterases.	05
