

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

Enrolment No. \_\_\_\_\_

# **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.**

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

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