	Seat No.:	Enrolment No	_
		GUJARAT TECHNOLOGICAL UNIVERSITY	
		M. Pharm. – SEMESTER – I • EXAMINATION – WINTER • 2014	
	Subject	Code: 910203 Date: 09-01-2015	
	•	Name: Advances in Pharmacology	
	-	0:30 am - 01:30 pm Total Marks: 80	
	Instruction	<u>-</u>	
		Attempt any five questions.	
		Make suitable assumptions wherever necessary.	
		Figures to the right indicate full marks.	
Q.1	(a)	Classify $\beta$ adrenoceptor antagonists. Describe role of $\beta_3$ adrenoceptors in	06
_		various diseases.	
	(b)	Enlist antimalarials. Write a note on artemisinin.	05
	(c)	Justify following:	05
		(i) Mesna is given with cyclophosphamide.	
		(ii) Pyridoxine is given with isoniazide.	
0.4			0.0
Q.2	(a)	Discuss histamine receptors, their distribution, and post receptor mechanism.	06
	(b) (c)	Enlist immunosuppressants. Write a note on cyclosporin. Write mechanism of action and uses of levamisole.	05 05
	(c)	write mechanism of action and uses of levamisore.	03
Q.3	(a)	Discuss hormones and hormone antagonists used in cancer chemotherapy.	06
Q.C	()	Write a note on tamoxifen.	0.0
	(b)	Write mechanism of action and uses of fluconazole.	05
	(c)	Discuss therapeutic uses of cholinesterase inhibitors.	05
<b>Q.4</b>	(a)	Write on clinical applications of eicosanoids giving suitable examples.	06
	(b)	Write mechanism of action and uses of levofloxacin.	05
	(c)	Write therapeutic uses of sympathomimetics.	05
Q.5	(a)	Explain bacterial resistance to antimicrobials.	06
Q.S	(b)	Write on carbapenems and monobactams.	05
	(c)	Name antimicrobial agents used for	05
	(-)	(i) Rickettsial and chlamydial infection	
		(ii) Leprosy	
		(iii) UTI	
		(iv) Pneumococcal infection	
		(v) Prophylactic for Malaria	
0 (	(a)	Discuss about a set because of 5 HT acceptor out acceptor	06
Q. 6	(a) (b)	Discuss pharmacotherapeutics of 5-HT receptor antagonists. Write a note on tamsulosin.	06 05
	(c)	Discuss pharmacology of neuromuscular blockers.	05 05
	(C)	Discuss pharmacology of heuromuseular blockers.	05
Q.7	(a)	Write a note on oral cephalosporins.	06
-	(b)	Write a note on zanamivir.	05
	(c)	Name antimicrobial agents producing side effects	05
		(i) Ototoxicity (ii) Cinchonism (iii) Crystlluria (iv) Fanconi like syndrome	
		(v) Orange – red coloration in urine	
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