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

## **GUJARAT TECHNOLOGICAL UNIVERSITY** D.Ph. - SEMESTER-II • EXAMINATION – SUMMER 2013

Subject Code: 420002Date: 14-05-20Subject Name: Pharmaceutical Chemistry-IITotal Marks:Time: 10.30 am - 01.30 pmTotal Marks:		Code: 420002 Date: 14-05-2013	: 14-05-2013	
Inst		Attempt any five questions. Make suitable assumptions wherever necessary.		
Q.1	(a) (b) (c)	Define and classify steroidal drugs. Write a note on progesterone. Write a note on Cotrimoxazole with its importance in Pharmaceutical field. Draw the structure and give the method of numbering of the following heterocycles:(any five) i)aziridine ii) pyridine iii)piperazine iv)pyrimidine v)imidazole vi)tetrahydrofuran.	06 05 05	
Q.2	(a) (b) (c)	Define and classify Antibiotics.Write a note on -lactam antibiotics. Draw the structure and give nomenclature of following drugs: i)Indomethacin ii)Thyroxine iii)Sulphacetamide iv)Metronidazole v)Ampicillin vi)Ethambutol Define and classify Vitamins.Give synonym and deficiency disease of all vitamins.	06 05 05	
Q.3	(a) (b) (c)	Define and classify antineoplastic agents.Write a note on mechanism of action of Methotrexate. Give a brief account on diagnostic dyes. Write a note on Local anaesthetics.	06 05 05	
Q.4	(a) (b) (c)	Define Hypoglycemics. Add a note on Insulin. Define and classify antihistaminics and explain their mechanism of action in brief. Define and classify antimalarial agents .Add a note on chloroquine.	06 05 05	
Q.5	(a) (b) (c)	Define and classify Adrenergic drugs.Add a note on their therapeutic uses. Give the category of following drugs: i)Haloperidol ii)cephaloridine iii)Caffeine iv)atropine v)Neostigmine vi)methimazole Define Hypnotics .Classify them and give an account on barbiturates.	06 05 05	
Q. 6	(a) (b) (c)	Give the structural formula for following functional groups: i)benzyl ii)carbamoyl iii)mercapto iv)guanidino v) phenoxy vi)dimethylamino Write a note on Analeptics. Define and classify cholinergic drugs.Add a note on their therapeutic uses.	06 05 05	
Q.7	(a) (b) (c)	Define and classify antiamoebic drugs giving suitable examples from each class. Write a note on Diuretics. Write a note on antileprotics.	06 05 05	

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