Seat No.:	Enrolment No
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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

DIPLOMA PHARMACY - SEMESTER-II • EXAMINATION-SUMMER • 2014

		Code: 420002 Date: 21-05-2014	
-	e: 10	Name: Pharmaceutical Chemistry - II 0:30 am - 01:30 pm Total Marks: 80	
	1.	Attempt any five questions.  Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.	
Q.1	(a)	Draw the structure of following hetrocyclic ring system.  (i) Thiophene (ii) Coumarin (iii)Indole (iv)Pyridine	04
	<b>(b)</b>	Draw the structure of following  (i) Aspirin  (ii) Metronidazole  (iii)Procaine  (iv)sulfacetamide	04
	(c)	Write the storage condition of followings  (i) Cyclopropane  (ii) Diethyl ether  (iii)Insulin  (iv)Physostigmine	04
	(d)	Write the name and use of active chemical constituent present in the following brands  (i) Xylocaine  (ii) Metacine  (iii)Coramine  (iv)Benadryl	04
Q.2	(a) (b)	What are antibiotics and antibacterials? Briefly classify antibiotics with suitable example and draw structure of one drug from each class.  Which are the causative organisms of malaria? Describe the life cycle of	08 08
Q.3	(a)	malarial parasite. Classify anti-malarial agents with examples.  What are sedative and hypnotics? Briefly classify them with suitable examples.	08
Q.D	(b)	Give the structure and property of phenobarbitone.  What are tranquilizing agents? Classify them with suitable examples. Write a detail note on anti psychotic agent	08
Q.4	(a)	<ul> <li>(i) Antiseptics</li> <li>(ii) Disinfectants</li> <li>(iii)Lipid lowering agents</li> <li>(iv)Carditonic agents</li> <li>(v) Vitamins</li> <li>(vi)Anticholinergic gents</li> </ul>	06
	(b) (c)	What is diabetes mellitus? Write a note on oral hypoglycemic agents. Define anti-histaminic agents. Classify them with suitable examples. Give the structure of Chlorpheniramine.	05 05

Q.5 (a) What are analgesics? Classify them. Write a brief discussion on narcotic 06

	(b) (c)	analgesics. Classify antitubercular agents with examples. Draw the structure of Isoniazid and PAS. What are diuretics? Write the structure and chemical properties of any two of them.	05 05
Q. 6	(a)	Why cancer is difficult to treat compared to infection? Write a note on anti cancer agents.	06
	(b) (c)	What are Antiarrhythmic agents? Briefly classify tem with suitable examples What is epilepsy? Write a note on anti convulsant agents	05 05
Q.7	(a)	Write a notes on following  (i) Diagnostic agent  (ii) Anti fungal agents  (iii)Steroidal drugs  (iv)Adrenergic agents	16

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