Seat No.: _____ Enrolment No.: _____

GUJARAT TECHNOLOGICAL UNIVERSITY

DIPLOMA PHARMACY– SEMESTER – II • EXAMINATION – SUMMER 16

Subject Code: 420002 **Date: 30.04.2016**

Subject Name: Pharmaceutical Chemistry-II

Time: 10:30 AM TO 01:30 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)**	Draw the structure of following heterocyclic ring systems and name drug containing that ring. (i) Phenothiazine (ii) Quinoline (iii) Pyrazole (iv) Acridine (v) Pyridine (vi) Indole	**06**
	(b)	Explain the following terms. (i) Hyperglycemic agents (ii) Cardiotonics (iii) Antipyretics agents (iv) Diuretics (v) Tranquilizers	**05**
	(c)	What are analgesics? Give suitable examples of drugs used as narcotic analgesics.	**05**
Q.2	**(a)**	Draw the structure and give number in following fused ring system. (i) Benzofuran (ii) Isoindoline (iii) Quinoline (iv) Phenothiazine (v) Benzimidazole	**06**
	(b)	Describe the life cycle of plasmodium with the drugs acting on different stages of it.	**05**
	(c)	Define hormones. Write a note on anti thyroid drugs.	**05**
Q.3	**(a)**	Define antihistaminic agents. Classify it giving suitable examples. Write a note on aminoalkyl ethers.	**06**
	(b)	What is epilepsy? Write a note on antiepileptic agents.	**05**
	(c)	Define vitamins. Give an account on fat soluble vitamins.	**05**
Q.4	**(a)**	Classify antitubercular agents with examples. Draw the structure of pyrazinamide and Isoniazide.	**06**
	(b)	Define and classify antiseptics and disinfectants with examples.	**05**
	(c)	Write a note on Antifungal agents.	**05**
Q.5	**(a)**	What are oral hypoglycemic agents? Describe its different classes with examples.	**06**
	(b)	Write a note on Diagnostic agents.	**05**
	(c)	Define hypnotics and sedatives. Write short note on barbiturates as hypnotics.	**05**
Q. 6	**(a)**	What are antibiotics? Write a note on penicillins.	**06**
	(b)	Define analeptics. Write structure, chemical name, chemical properties and storage condition of any two of it.	**05**
	(c)	Write a short note on chloramphenicol and tetracyclines.	**05**
Q.7	**(a)**	Define anti-inflammatory agents. Write a note on non-steroidal anti-inflammatory agents with suitable examples.	**06**
	(b)	Discuss chemistry of steroids. Discuss the significance of steroid drugs in therapy.	**05**
	(c)	Write a note on anti-coagulants.	**05**

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