

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA PHARMACY YEAR- 1 • EXAMINATION – WINTER - 2023

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Subject Code: DP102TP

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Date: 12-12-2023

Subject Name: Pharmaceutical Chemistry

Time: 02:30 PM TO 05:30 PM

Total Marks: 80

Instructions:

1. Question -1 is compulsory to attempt.
2. Attempt any 04 questions from Question 2 to 7.
3. Make suitable assumptions wherever necessary.
4. Figures to the right indicate full marks.

Q.1 Answer the following questions. (Attempt Any 16) (1 mark each)

16

- 1) Write the storage condition of Insulin.
- 2) Write the storage condition of oxygen gas.
- 3) Barium chloride reagent is used in limit test of _____
- 4) _____ is used as ultra-short acting barbiturate.
 (a) Thiopental Sodium (b) Ketamine Hydrochloride
 (c) Propofol (d) Diazepam
- 5) _____ is used in treatment of UTI
 (a) Ciprofloxacin (b) Ramipril (c) Cisplatin (d) Acyclovir
- 6) _____ is used as antiviral agents
 (a) Acyclovir (b) Metformin (c) dapsone (d) Amphotericin -B
- 7) Drugs used for treatment of epilepsy is called as _____
- 8) Closeness between experimental mean and true value is called as _____
- 9) Isosorbide dinitrate is used as _____ agent.
- 10) Define Haematinics
- 11) Define analgesic
- 12) Define Normality
- 13) Write the name of any two drugs which is used as SSRIs
- 14) Write the name of any two drugs which is used as Sympathomimetic Agents
- 15) Write the name of any two drugs which is used in treatment of cancer.
- 16) Write the use of ketoconazole.
- 17) Write the use of Sodium fluoride.
- 18) Write the Imidazole heterocycle.
- 19) Write the structure of dapsone.
- 20) Write Phenothiazine heterocycle

Q.2 (a) Define limit test. Describe limit test for arsenic.

06

(b) Define and classify gastrointestinal agents giving examples.

05

(c) Describe sources of Impurities.

05

- Q.3** (a) What is titration? Classify titration method and briefly explain any one titration method. **06**
- (b) What are topical agents? Write the storage condition and uses of boric acid and hydrogen peroxide. **05**
- (c) Write a short note on gravimetric analysis. **05**
- Q.4** (a) Define and classify diuretics. Write the structure of Frusemide. **06**
- (b) Write a brief account on Sulphonamides. **05**
- (c) Write a short note on Cholinergic and Anti- Cholinergic agents. **05**
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- Q.5** (a) Write the chemical structure and uses of (i) Imipramine hydrochloride (ii) Aspirin (iii) Diazepam **06**
- (b) What are Anti-Arrhythmic Drugs? Classify them with suitable examples. **05**
- (c) Write a short note on Antipsychotics. **05**
- Q.6** (a) Write the chemical structure and uses of (i) Propranolol (ii) Phenytoin sodium (iii) INH **06**
- (b) What are oral Hypoglycemic agents? Classify them with suitable examples **05**
- (c) Write a short note on NSAIDs. **05**
- Q.7** (a) Define and Classify antibiotics. Write the structure of amoxicillin. **06**
- (b) What are anti-tubercular agents? Classify them with examples. **05**
- (c) Write a short note on anti-malarial agents. **05**
