
PHARMACEUTICAL CHEMISTRY

Time Allowed : 3 Hours**Maximum Marks : 80**

- Notes:** (i) Attempt all questions.
(ii) Students are advised to specially check the numerical data of question paper in both versions. If there is any difference in Hindi translation of any question, the students should answer the question according to the English version.
(iii) Use of Pager and Mobile Phone by the students is not allowed.
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Part-A**(Long Answer Type Questions)****Note :** Answer any six questions. Each question carries equal marks. [6×5=30]

- Q.1. Write the source and effect of impurities in Pharmacopoeial substances.
Q.2. Mention the principle and method of Gravimeter analysis.
Q.3. Describe Antidepressant drugs with examples.
Q.4. Describe Antianginal drug and classify them with examples.
Q.5. Define and classify diuretic drugs. Discuss the chemical structure and physical properties of Frusemide.
Q.6. Describe Hypoglycemic agents in short.
Q.7. Write short notes on any two of the following :
(i) Acid-base titration
(ii) Accuracy
(iii) NSAIDs

Part-B**(Short Answer Type Questions)****Note :** Answer any ten questions. Each question carries equal marks. [10×3=30]

- Q.1. Insulin
Q.2. Anti-Viral agents
Q.3. Penicillin
Q.4. Anti-neoplastic agents
Q.5. Chloroquine
Q.6. Ritampicin
Q.7. Cholinergic drugs
Q.8. Isosorbide dinitrate
Q.9. Topical agents
Q.10. Redox titration
Q.11. Mouth Washes

Part-C

(Multiple Choice Questions)

Note : Answer all questions. Each question carries equal marks.

[20×1=20]

- Q.1. During the limit test for iron, the purple colour is due to formation of which of the following?
 (a) Ferrous sulphate (b) Ferrous citrate
 (c) Ferrous ammonium citrate (d) Ferrous thioglycolate
- Q.2. A substance which changes its colour in acidic and basic medium during titration is called as :
 (a) Analyte (b) Indicator
 (c) Titrant (d) Titrand
- Q.3. Which of the following is not heteroatom?
 (a) N (b) S
 (c) O (d) C
- Q.4. Which of the following is the brand name of Isosorbide dinitrate?
 (a) Sorbitrate (b) Calpol
 (c) Voveran (d) Lasix
- Q.5. 1,1, dimethylguanidine is the chemical name of which of the following?
 (a) Glibenclamide (b) Sulfacetamide
 (c) Metformin (d) Frusemide
- Q.6. Which of the following is non-steroidal anti-inflammatory agent?
 (a) Salbutamol (b) Ibuprofen
 (c) Diazepam (d) Propranolol
- Q.7. Which of the following is an Anti-Neoplastic agent?
 (a) Methotrexate (b) Rifampicin
 (c) Doxycycline (d) Fluconazole

Fill in the Blanks :

- Q.8. Milk of Magnesia is a common name of _____. <https://www.bteuponline.com>
- Q.9. Neostigmine is used in the treatment of _____.
- Q.10. Silver Nitrate should be stored in _____.
- Q.11. Hypoglycemic agents are the drugs used for the treatment of _____.
- Q.12. Ecosprin is the brand name of _____.
- Q.13. Benzylpenicillin is the chemical name of _____.
- Q.14. Ferrous sulphate is used in the treatment of _____ which is caused by iron deficiency.

One word / one sentence questions :

- Q.15. Write the storage of insulin injection.
- Q.16. Why the calcium and magnesium combination is preferred for antacid preparation?
- Q.17. What are Anaesthetics?
- Q.18. Write the storage condition of Nitrous oxide.
- Q.19. What is the use of Ciprofloxacin?
- Q.20. What is Hypertension?