

DO NOT WRITE ANYTHING ON YOUR QUESTION PAPER EXCEPT YOUR ROLL NO. QUESTION PAPER CONTAINING ANYTHING WOULD BE TREATED AS MALPRACTICE
Answer the questions serially and continuously

Subject: PHARMACHEMISTRY (Theory)

Full Mark -80

Time -3 hrs

1. Answer any six questions : (6x5)

- Define and classify anti-malarial agents. Write down the structure, chemical name, and to popular brand names of Chloroquine.
- Define impurities and describe the various sources of impurity.
- Define and classify diuretics. Write down the structure, chemical name and popular brand names of Furosemide.
- Define and classify Antacids. Discuss why the combination of antacids is so popular Now-a-days.
- Classify Non Steroidal Anti-inflammatory Drugs (NSAIDs) with suitable example. Write the structure, chemical name & popular brand names of IBUPROFEN & ASPIRIN.
- Classify sympathomimetic agents with examples. Write the structure, chemical name and uses of (a) Dopamine (b) Naphazoline.
- Define Acid-Base indicators and describe in details about the Indicator theory with suitable examples.

2. Answer any ten questions out of eleven: (10x3)

- Write the Principle involved in Limit test for Arsenic.
- Distinguish between Accuracy & Precision.
- Mention the structure, IUPAC name & popular brand name of INH & Ketoconazole.
- Define Antibiotics. Write the structure, use & popular brand name of Amoxycillin.
- What do you mean by Anticonvulsants ? Write the structure, use & brand name of Valproic acid.
- Write down the stage of anaesthesia.
- Write in brief about preparation & standardization of Potassium Permanganate Solution ?
- Define Cathartics, mention its examples and attached a small note on Osmotic Purgatives ?
- Define Sedative & Hypnotics. Mention the chemical structure & chemical name of diazepam and phenobarbital.
- How raw materials contribute impurities to the finished product. Explain.
- What are the advantages of $BaSO_4$ reagent over $BaCl_2$ in the limit test for sulphate.

3. (A) Write down the structure and uses of the following compounds (1x10)

- | | | | |
|-------------------|-----------------|------------------|----------------------|
| i) Paracetamol | ii) Pheniramine | iii) Haloperidol | iv) Dapsone |
| v) Acyclovir | vi) Phenytoin | vii) Propranolol | viii) Chlorpromazine |
| ix) Glibenclamide | x) Metformin | | |

(B) Define the following (within twenty words) : (1x10)

- | | | | |
|----------------------|----------------------|--------------------|----------------------|
| i) Self indicator | ii) Quality control | iii) Hemosiderosis | iv) Aprotic solvent |
| v) Laxative | vi) Dental fluorosis | vii) Reductant | viii) Fajan's method |
| ix) Complexing agent | x) Antidepressant | | |
