

## PHARMACEUTICAL CHEMISTRY

Full marks :80

Answer question now number one and any four form the rest.

1×20=20

1. Fill up the blanks with appropriate word(s).
  - a) Limit test is performed in .....cylinder.
  - b) An example of a Lewis acid is.....
  - c) IUPAC name of salbutamol is.....
  - d) A brand name of salbutamol is.....
  - e) .....is a hypoglycemic agent to be taken before a meal.
  - f) Lexis is the brand name of.....
  - g) Endocarditis is an inflammation of.....
  - h) In a Mohr's method,..... is use as indicator.
  - i) Example of an anti acid which has laxative property is.....
  - j) Dissociative an aesthesia is produced by.....
  - k) Example of a self-indicator is .....
  - l) ..... is an example of a tri-cyclic antidepressants.
  - m)  $\beta$ -lactams Containing 2, 3- dihydrothiazole rings are named....
  - n) Oxygen is stored in.....
  - o) Aspirin on hydrolysis produces.....
  - p) Co- trimoxazole is a mixture of .....and.....
  - q) The number of chlorine atom present in ketoconazole is.....
  - r) Example of an antifungal agent which contains imidazole ring is.....
  - s) ..... is an anti-virus drug used against corona virus.
  - t) Cisplatin is used as. ....

2. Write any 10 questions from the following:

10×3=30

  - a) Write a note on  $\beta$ - lactam compounds.
  - b) Define error. Write different type of error.
  - c) Write down the type of insulin with examples.
  - d) What are precipitation titrations? give example and reaction of the substance assayed by this method.
  - e) Write the principle of the Limit test of the chloride and heavy metals.
  - f) Write the principle of the Limit test of Arsenic.
  - g) Classify the hypoglycemic agent which enhances the insulin secretion.
  - h) Give chemical structure, nomenclature, use and popular brands names of Diazepam.
  - i) Explain nonaqueous titration briefly.
  - j) What hypnotics and Sedative? Write their Pharmaceutical uses.
  - k) Explain complexometric titration with examples.

3. Answer any 6 (six) questions from the following:

6×5=30

- a) Classify the drugs acting on Autonomic Nervous System.
- b) Define antacid classify antacids with examples. what are characteristics of an ideal antacid?
- c) Define and classify anti hypersensitive agents with examples.
- d) Write a note on topical agent.
- e) Illustrate the class of drugs acting on central nervous system.
- f) Classify quinolone antibiotics; give example along with their uses stage, doses forms and stage conditions.
- g) Write a note on NSAIDs with examples.
- h) Define and classify diuretics with examples.