

Ref. No.: Ex/BP104T/2024

B.Pharm 1st Year 1st Semester Examination-2024

BP-104T

Pharmaceutical Inorganic Chemistry

FM- 75

Time- 3hrs

Answer any five question taking atleast two from each group

Group-A

1. a) Define quality control of a drug/pharmaceutical.
b) Discuss the source of impurities in pharmaceuticals & how can you control them.
c) What are tests for purity? Give a brief notes on “tests for purity”.

2 + 10 + 3 = 15
2. a) Define limit test with examples.
b) Discuss the principle/reaction procedure involved in the limit test for Lead and Arsenic.
c) Why are limit tests performed?

2 + 10 + 3 = 15
3. a) Define and classify antiseptic & disinfectant with examples.
b) Write short notes on KMnO_4 , H_2O_2 , I_2 and Boric acid.
c) What is the significance of the following?
PbT, AsT, FeT, addition of dil. HNO_3 in the limit test for chloride & dil. HCl in the Limit test for sulphate.

2 + 8 + 5 = 15
4. a) Classify gastrointestinal agents with examples.
b) Define and classify cathartics with examples.
c) Discuss in brief the strong cathartics, protectives, combined antacid preparation & osmotic purgatives

2 + 3 + 10 = 15

[Turn over

Group-B

5. Answer **any ten** short questions of the following:

10 × 1.5 = 15

- a) Complete it. ${}_{92}\text{X}^{235} - 2\beta = \text{Y}$
- b) I^{131} is used for cancer of
- c) Zinc-eugenol cement is used as.....
- d) Activated charcoal is used as.....
- e) Iron is absorbed in body asform (Ferrous/Ferric).
- f) Higher concentration of Sodium ion in body is called.....
- g) Low concentration of Potassium ion in body is called.....
- f) Curie is unit of
- g) Use of Sodium thiosulphate is as
- h) As per Lewis concept Ammonia is.....
- i) Complete it. ${}_{90}\text{Y}^{232} - \alpha = \text{Z}$
- j)is used as replacement therapy.
- k) Sodium fluoride is used as.....
- l) Write Henderson-hasselbalch equation for buffer capacity.

6. a) Write in details about major physiological ions.

b) Classify Antidotes with mechanism and example.

10 + 5 = 15

7. a) Write about Heamatinics and Ferrous sulphate.

b) Write about caries and anti-caries agent.

c) Define dentifrices agents with suitable example.

7 + 6 + 2 = 15

8. a) Calculate half life for radiopharmaceuticals.

b) Write in details about uses of radiopharmaceuticals with suitable examples.

c) How radiopharmaceuticals are stored?

5 + 7 + 3 = 15