

B. Pharm 1st Year 1st Semester Examination-2022

BP-104T

Pharmaceutical Inorganic Chemistry

FM-100

Time-3hrs

Answer any five question taking atleast two from each group

Group-A

1. a) What do you mean by quality control of a drug/pharmaceutical?
b) What are the sources of impurities & how can you control them?
c) What are the effects of impurities?
2+12+6 = 20

2. a) Define limit-tests. Why do we perform limit test for a pharmaceutical? Discuss the principles involved in the limit test for Cl⁻, SO₄²⁻, Fe & Pb.
b) Discuss the principle, methodology for the limit test for arsenic with a neat sketch of the apparatus used.
1+1+6+08+4 = 20

3. a) Define and classify gastrointestinal agents. Write down short notes on saline cathartics, strong cathartics & nonsystemic antacids.
b) Write short notes on emetics & expectorants.
12 + 8 = 20

4. a) Define & classify antiseptic & disinfectants with examples.
b) Outline mechanism of action of inorganic germicides.
c) Write short notes on KMnO₄/H₂O₂/I₂/Astringents.
4 + 4 + 12 = 20

Group-B

5. a) Write in details about major physiological ions.
b) Write a note on buffers.
15 + 5 = 20

6. a) Write a short note on dentrifices and calcium carbonate.
b) Write about caries and anti-caries agent.
c) Define desensitizing agents with suitable example.
8 + 10 + 2 = 20

7. a) Calculate half life for radiopharmaceuticals.
b) Write in details about uses of radiopharmaceuticals with suitable examples.
c) How radiopharmaceuticals are stored?
6 + 12 + 2 = 20