

BACHELOR OF PHARMACY EXAMINATION, 2019**B. Pharmacy - Second Year - First Semester****Pharmaceutical Chemistry – V (Inorganic)**

Time: Three hours.

Full Marks: 100

Answer any **five** questions taking at least two from each group**GROUP – A**

1. a) Define transition elements with respect to the periodic table. Specify the group, characteristic features and therapeutic utility of these elements with suitable examples along with the diseases caused due to its deficiency, wherever applicable.
- b) Define alkaline earth metals. Explain characteristics, uses and therapeutic properties of an important alkaline earth metal. Explain the deficiency diseases caused by this element and its different dosage forms available.
- 10+10 = 20
- 2a) Explain the composition and function of different saline solutions as mentioned in IP. How is the assay of normal saline performed?
- b) Explain the different types of diseases due to deficiency of iron. What are the different forms of iron salts available for formulation? State the composition and function of iron dextran injection IP.
- 10+10 = 20
3. Write short notes on the following: 4×5=20
- | | |
|----------------------------|-------------------------------|
| a) Intramuscular injection | b) Ringer lactate solution IP |
| c) Pyrogen test | d) Macro and micro nutrients |
| e) Guillain-Barre syndrome | |
4. State the composition, assay methods, uses of the following small volume Parenteral preparations: 4×5=20
- | | |
|-----------------------------|--------------------------|
| a) Morphine injection IP | b) Amikacin injection IP |
| c) Diazepam injection IP | d) Insulin injection IP |
| e) Carboplatin injection IP | |

B.Pharm 2nd Year 1st Semester Examination- 2019

Pharmaceutical Chemistry –V

(Inorganic Chemistry)

Ex/PHARM/T/214/2019

Answer any five taking at least two from each group

GROUP - B

1. a) Define and classify antiseptic and disinfectants with examples.
b) Discuss the mode of action of inorganic germicides?
c) Outline the preparation, properties and specific uses of Hydrogen peroxide, KMnO₄ and Bleaching powder. 5+3+12=20

2. a) Define and classify Cathartics with suitable examples.
b) Outline the mechanism of action of Inorganic germicides.
c) Discuss the preparation, properties and uses of Saline cathartics. 5+3+12=20

3. a) Classify water based on their uses.
b) How can you prepare water for parenterals? Discuss in brief.
c) Discuss the sterility testing for “water for injection”. 3+10+7=20

4. a) How can you evaluate a disinfectant?
b) How can you evaluate a purgative drug?
c) Write a note on Strong Cathartics.
d) Write a note on Iodine and Iodophores as disinfectants. 5×4=20