

KNT/KW/16/6541

B. Pharm. First Semester (C.B.S.) Examination
PHARMACEUTICAL CHEMISTRY—I (Inorganic)
Paper—2 (1T2)

Time : Three Hours]

[Full Marks : 80

- N.B. :—** (1) Question No. 1 is compulsory.
(2) Solve any **FOUR** questions from remaining.
(3) Draw neat labeled diagram wherever necessary.

1. Solve any **FIVE** of the following :—
 - (a) Write the principle for the Limit test of chloride.
 - (b) Enlist various inorganic compounds used as gastrointestinal agents along with examples.
 - (c) Write the role of fluorides as anticaries agents.
 - (d) Explain, how acid-base balance of the body is maintained.
 - (e) Write the various WHO formula of oral rehydration solutions.
 - (f) Define buffer capacity. Write its importance.
 - (g) What do you mean by acidosis and alkalosis ? 4×5=20
2. (a) Define the term Impurity. Give the various sources of Impurities along with its effect. 7
(b) Write in detail about the limit test of Iron. 8
3. Write in detail about the various theories of acids and bases and derive the equation $p^H + p^{OH} = 14$. 15
4. Write notes on any **THREE** of the following :—
 - (a) Antidotes
 - (b) Dentrifrices
 - (c) Saline Cathartics
 - (d) Antioxidant. 5×3=15
5. (a) What are major intra and extra cellular electrolytes ? Write in detail about the electrolytes combination therapy. 7
(b) What are radio pharmaceuticals ? Explain the role of Barium sulphate as radio-opaque contrast media along with applications of radiopharmaceuticals. 8

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(Contd.)

6. (a) Define the term expectorant and enlist the various inorganic compounds which are used as expectorants and write in detail about any two compounds. 7
- (b) What do you mean by Topical agents? Classify the various topical agents and give the mechanism of action of antimicrobial agents. 8
7. Write notes on any **THREE** of the following :
- (a) Respiratory stimulants
- (b) Pharmaceutical Buffers
- (c) Modified Guitzet's test
- (d) Sterile Water for Injection. $5 \times 3 = 15$