

**C.U.SHAH UNIVERSITY**

Summer-2015

Subject Code: **4PS01PCH1** Subject Name: Pharmaceutical Chemistry-I (Inorganic)

Course Name: B.Pharm

Date: 5/5/2015

Semester:1

Marks: 70

Time:10:30To01:30

**Instructions:**

- 1) Attempt all Questions of both sections in same answer book/Supplementary.
- 2) Use of Programmable calculator & any other electronic instrument prohibited.
- 3) Instructions written on main answer book are strictly to be obeyed.
- 4) Draw neat diagrams & figures (if necessary) at right places.
- 5) Assume suitable & perfect data if needed.

**Q-1 A) Define the following terms:**

- |                                  |   |
|----------------------------------|---|
| a) Pharmacopoea                  | 1 |
| b) Disinfectant                  | 1 |
| c) Bacteriostatic & bactericidal | 1 |
| d) Limit Test                    | 1 |
| e) Astringent                    | 1 |
| f) Cathartics                    | 1 |
| g) Dentifrices                   | 1 |

**B) Give reason of the followings in one or two sentences**

- |   |   |
|---|---|
| a) Eq.wt. of $\text{KMnO}_4$ changes with media               | 1 |
| b) Povidone-Iodine is better than tincture iodine.            | 1 |
| c) Strong $\text{NH}_3$ is back titrated                      | 1 |
| d) Potassium iodide is added in aqueous Iodine solution       | 1 |
| e) Aqueous solution of borax is alkaline                      | 1 |
| f) Glycerine is added in assay of Boric acid                  | 1 |
| g) Magnesium sulphate is used in the assay of calcium lactate | 1 |

**Attempt any four****Q-2 Give answer of following**

- |  |   |
|--|---|
| a) Define and explain pharmaceutical aids used in pharmaceutical formulations. | 7 |
| b) Explain the various theories of acids and bases.                            | 7 |

**Q-3 Give answer of following**

- |  |   |
|--|---|
| a) Write an informative note on various dental products.   | 7 |
| b) Explain principle and procedure for limit test of Iron. | 7 |

**Q-4 Give answer of following**

- |  |   |
|--|---|
| a) Explain briefly the characteristic of ideal antacid.      | 7 |
| b) Define and classify topical agents with suitable examples | 7 |



- Q-5 Give answer of following** **7**
- a) Write short note on purified water and water for injection. **7**
- b) Describe the physiological importance of iron. Name the various compounds of iron which are used in pharmacy. Describe any one of them. **7**
- Q-6 Give answer of following** **7**
- a) Define and explain antidote use in pharmacy. Give preparation, properties and uses of any one of them. **7**
- b) What do you understand by antibacterial agent? Explain its mechanism. **7**
- Q-7 Give answer of following** **7**
- a) Give preparation of 5% w/v aqueous solution of iodine. Give the reasons for the reagents used in preparation. **7**
- b) Enlist the sources of the impurities in pharmaceuticals and discuss the manufacturing hazards as source of impurity. **7**
- Q-8 Give answer of following** **7**
- a) Discuss the factors affecting selection of pharmaceutical buffers and name any two physiological buffers and two analytical buffers. **7**
- b) Write a note on cyanide poisoning and its treatment. **7**

