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Total No. of Pages : 02

Total No. of Questions : 10

**B.Pharma (2011 to 2016) (Sem.-1)**  
**PHARMACEUTICAL CHEMISTRY-I**  
**(Inorganic Pharmaceutical Chemistry)**  
Subject Code : BPHM-102  
M.Code : 46202

Time : 3 Hrs.

Max. Marks : 80

**INSTRUCTIONS TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of FIFTEEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.
3. SECTION-C contains FOUR questions carrying TEN marks each and students has to attempt any THREE questions.

**SECTION-A****1. Define and give example if any :**

- a) Buffer capacity
- b) Replacement therapy
- c) Handerson-Hasselbach equation
- d) Haematinics
- e) Antiflatulant
- f) Expectorants
- g) Diluent
- h) Hard and soft acid
- i) Chelating agent
- j) Temporary and permanent hard water





- k) pKa
- l) Essential ions
- m) Cathartics
- n) Astringents
- o) Antioxidants

#### SECTION-B

2. Discuss in detail the chemistry of various complexing agents.
3. Give a brief account of mineral supplements.
4. What are different kinds of topical agents? Discuss any one category.
5. Comment upon oxidative antimicrobial agents.
6. Write short note on various types of waters.

#### SECTION-C

7. What are antacids? Give names and formulae of five antacids. What are the side effects associated with antacid therapy? What are the requirements of an ideal antacid?
8. What are the major physiological ions present in body? Give a detailed account of sodium ions.
9. Write a detailed note on oxidative antimicrobial agents.
10. Discuss different sources of impurities in pharmaceutical substances. Give principle and procedure for limit test of sulphates.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**

