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Total No. of Pages : 02

Total No. of Questions : 24

B.Pharma (2012 to 2016) (Sem.-1)
PHARMACEUTICAL CHEMISTRY-I

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 have to attempt any **FOUR** questions.
3. **SECTION-C** contains **FOUR** questions carrying **TEN** marks each and students have to attempt any **THREE** questions.

SECTION-A

Write briefly :

1. Bactereostatic water for injection
2. Metal complexes
3. Dentifrices
4. Tableting aids
5. Method of preparation of any one compounds used in cyanide poisoning
6. Talc as a protective agent
7. Medicinal uses of activated charcoal
8. Physiological acid base balance
9. Dimercaprol as a complexing agent
10. Enlist major physiological ions in a living system
11. Protective properties of calamine
12. Preparation and uses of Boric acid
13. Method of preparation of Sodium nitrite
14. Medicinal uses of Expectorants
15. Copper as a trace element

SECTION-B

16. What are respiratory stimulants? Discuss their medicinal significance.
17. Give a comprehensive account of saline cathartics with examples.
18. Write down the importance of antioxidants in pharmaceuticals. Give suitable examples.
19. Give a detailed account of anticaries agents and dentifrices. Support your answer with suitable examples.
20. Describe the protective properties of Talc, Zinc oxide and calamine.

SECTION-C

21. Define and classify major intra- and extra-cellular electrolytes. Discuss physiological acid-base balance. Give methods of preparation and uses of calcium gluconate and potassium chloride
22. Enlist various types of impurities observed in pharmaceutical substances. Describe the theory, method and chemistry involved in limit test for iron.
23. Write **any one** method of preparation and medicinal uses of the following :
 - a) Hydrogen Peroxide
 - b) Yellow mercuric oxide
 - c) Kaolin
 - d) Sodium thiosulphate
24. Give the methods of preparation, uses and identification tests of the following :
 - a) Sodium lactate
 - b) Potassium bitartrate

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.