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Total No. of Pages : 02

Total No. of Questions : 24

B.Pharma (2012 to 2016) (Sem.-2)  
**PHARMACEUTICAL CHEMISTRY-III (Organic Chemistry)**  
Subject Code : BPHM-203  
M.Code : 46213

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**

Answer briefly :

1. What do you understand by intermolecular hydrogen bonding?
2. Explain Acidity of phenol.
3. Peroxide effect.
4. Define Markovnikov's rule.
5. Difference between D and L.
6. Hoffman degradation of amines.
7. Give structure of tartaric and Salicylic acid.
8. Mechanism behind electrophilic addition reaction of alkenes.
9. Optical activity and its unit.
10. Configuration.
11. As we move down the homologous series of alkane, boiling point....., explain why?
12. Give the structure of 1,3-cyclohexadiene.
13. Give the stability order of primary, secondary and tertiary carbocation.
14. Bayer strain theory.
15. Ozonolysis.

#### SECTION-B

16. What are Diazonium Salts? Give the method of preparation and one synthetic application.
17. Comment on nucleophilic addition reactions of aldehydes.
18. Explain the free radical mechanism for halogenation of alkanes.
19. Give the method of preparation of amides from carboxylic acids.
20. Short note on crown ethers.

#### SECTION-C

21. Give a details account on phase transfer catalysis.
22. Give detailed mechanism for E1 and E2 elimination. Enlist important difference between two mechanisms.
23. Enlist the two methods of preparation and two sets of reactions for alkyne.
24. Briefly explain :  
a) Kolbes reaction  
b) Riemer Tiemer reaction

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.