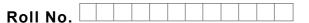
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Max. Marks: 80

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

Time : 3 Hrs.

# **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**

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# Answer briefly :

- 1. What do you understand by intermolecular hydrogen bonding?
- 2. Explain Acidity of phenol.
- 3. Peroxide effect.
- 4. Define Markornikovas 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.

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### **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 El 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
  - www.firstRanker.com 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.

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