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Total No. of Pages : 02

Total No. of Questions : 13

## B.Pharma (Sem.–3) PHARMACEUTICAL ORGANIC CHEMISTRY-II Subject Code : BP-301T M.Code : 75105 Date of Examination : 12-12-22

Time : 3 Hrs.

Max. Marks: 75

INSTRUCTIONS TO CANDIDATES :

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

#### **SECTION-A**

- 1. Answer briefly :
  - a) What is principle involved in iodine value?
  - b) Give any two reactions of phenanthrene.
  - c) Give the structure and uses of cresol.
  - d) Convert-benzene to p-Nitrotoluene.
  - e) Write any two limitations of Bayer's strain theory.
  - f) Give the mechanism of Friedel craft alkylation reaction.
  - g) What is coulson motiff theory?
  - h) Give the basicity order of aniline, p-nitroaniline and m-nitroaniline.
  - i) Write any one method of preparation of tritane.
  - j) What are drying oils?

#### **SECTION-B**

- 2. What are the various analytical constants used to check the quality of Fats and Oils? Define them. Mention the significance and principle involved in their determination.
- 3. What-are Ary-l-Diazonium-compounds? Justify their stability in comparison to alky diazonium salts and enumerate various synthetic uses of benzene diazonium salt.
- 4. Comment in detail upon effect of substituent upon reactivity and orientation of monosubstituted benzene compounds.

### **SECTION-C**

- 5. Classify polynuclear hydrocarbons. Give the structure of the compounds belonging to each class.
- 6. What is Reimen tiemen reaction? Write its detailed mechanism.
- 7. Comment upon hydrolysis and hydrogenation of Fats.
- 8. Enumerate various qualitative tests carried out for the detection of phenols.
- 9. Explain with evidence the mechanism of electrophillic substitution reaction of benzene.
- 10. Write down various methods for synthesis and reactions of benzoic acid.
- 11. Give various postulates of Bayer's strain theory. Write its limitations.
- 12. Define aromaticity. Give various conditions to be fulfilled by an organic compound to possess aromaticity.
- 13. Write down various methods of synthesis of cyclopropane.

# 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.