Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_



**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

**End Semester Examination – April/May– 2017**

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| **Code :** | **14CH2007** | **Duration :** | **3hrs** |
| **Sub. Name :** | **ALIPAHTIC AND AROMATIC CHEMISTRY** | **Max. marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

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| Q. No. | Sub Div. | Questions | Course  Outcome | Marks |
| 1. | a. | Outline a method of preparation of an amine and an azine. | CO1 | 8 |
| b. | Bring out the synthetic applications of diazonium salts. | CO1 | 12 |
| (OR) | | | | |
| 2. | a. | Write the general reactions of aliphatic nitrogen containing compounds. | CO1 | 12 |
| b. | Write the chemical properties of amines. | CO1 | 8 |
| 3. | a. | Outline the methods of preparing carboxylic acids. | CO1 | 10 |
|  | b. | Discuss the methods of preparation of ketones. | CO1 | 10 |
| (OR) | | | | |
| 4. | a. | What is aldol? Discuss the synthetic applications of aldol reaction. | CO1 | 10 |
|  | b. | What is perkin reaction? Explain with examples. | CO1 | 10 |
| 5. | a. | What is Grignard reagent? Write the synthetic utility of Grignard reagent. | CO2 | 15 |
|  | b. | Explain Reimer Tiemann reaction with an example. | CO2 | 5 |
| (OR) | | | | |
| 6. | a. | Discuss Dieckmann condensation and give its applications. | CO2 | 10 |
|  | b. | Explain Gattermann reaction with examples. | CO2 | 10 |
| 7. | a. | What is Friedel crafts reaction? Give the synthetic applications of Friedel crafts reaction.. | CO2 | 12 |
|  | b. | Discuss Baeyer-Villiger reaction with examples. | CO2 | 8 |
| (OR) | | | | |
| 8. | a. | Write notes on :  i) Fries reaction.  ii) Clemmensen reduction. | CO2 | 15 |
|  | b. | What is Stevens reaction? Explain with an example. | CO2 | 5 |
|  | | **Compulsory**: |  |  |
| 9. | a. | Discuss the salient features ofbenzil benzylic acid rearrangement. | CO3 | 10 |
|  | b. | What is Curtius rearrangement? Explain with examples. | CO3 | 10 |

ALL THE BEST