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



**End Semester Examination – Nov/Dec – 2017**

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| **Code :** | **14CH2007** | **Duration :** | **3hrs** |
| **Sub. Name :** | **ALIPHATIC 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. | How will you prepare aliphatic carbonyl compounds? Give examples. | CO1 | 12 |
|  | b. | Write the reactions of aliphatic carbonyl compounds. | CO1 | 8 |
| (OR) | | | | |
| 2. |  | Explain the reactions of aliphatic nitrogen containing compounds with examples. | CO1 | 20 |
|  |  |  |  |  |
| 3. | a. | Discuss the reactions of aromatic aldehydes and ketones. | CO1 | 12 |
|  | b. | How will you prepare azines? | CO1 | 4 |
|  | c. | Write the applications of arene diazonium salts. | CO1 | 4 |
| (OR) | | | | |
| 4. | a. | Write the reactions of mono and di carboxylic acids with examples. | CO1 | 10 |
|  | b. | Discuss the reactions of aromatic nitrogen containing compounds. | CO1 | 10 |
|  |  |  |  |  |
| 5. | a. | What is Aldol reaction? Explain with examples. | CO2 | 10 |
|  | b. | Explain Perkin reaction with an example. | CO2 | 5 |
|  | c. | Write short notes on Dieckman condensation. | CO2 | 5 |
| (OR) | | | | |
| 6. | a. | How will you formylate phenol? Explain with examples. | CO2 | 10 |
|  | b. | Discuss Friedel Crafts reactions with examples. | CO2 | 10 |
|  |  |  |  |  |
| 7. |  | What is Grignard reaction? Give its synthetic applications with examples. | CO2 | 20 |
| (OR) | | | | |
| 8. | a. | Write Gattermann reaction. | CO3 | 3 |
|  | b. | Explain Witting reaction with an example. | CO3 | 4 |
|  | c. | What is Clemmensen reduction. Give an example. | CO3 | 4 |
|  | d. | Discuss Baeyer-Villiger reaction with examples. | CO3 | 9 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. | a. | Explain Benzil- benzilic acid rearrangement with an example. | CO3 | 6 |
|  | b. | Write the applications of Curtius rearrangement with examples. | CO3 | 6 |
|  | c. | Discuss Hoffmann rearrangements with examples. | CO3 | 8 |

ALL THE BEST