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



**End Semester Examination – Nov / Dec – 2019**

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|  |  |  |  |
| **Code :** | **17CH3026** | **Duration :** | **3hrs** |
| **Sub. Name :** | **SUPRAMOLECULAR CHEMSITRY** | **Max. Marks :** | **100** |

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

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| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. |  | Prepare a detailed report on Optically active supramolecules. | CO1 | 20 |
| **(OR)** | | | | |
| 2. |  | Explain the Lock and Key Principle and the Induced Fit model with pictorial representations. | CO1 | 20 |
|  |  |  |  |  |
| 3. |  | Discuss the preparation, host-guest properties and applications of Crown ethers. | CO1 | 20 |
| **(OR)** | | | | |
| 4. |  | With a neat sketch, describe the High dilution synthesis of a macrocycle with an example. | CO3 | 20 |
|  |  |  |  |  |
| 5. | a. | Point out the different types of Supramolecular interactions. | CO2 | 5 |
| b. | Illustrate Racks, Ladders and Grids with pictorial representations. | CO3 | 15 |
| **(OR)** | | | | |
| 6. |  | Explain the different types of template synthesis of rotaxanes. | CO4 | 20 |
|  |  |  |  |  |
| 7. |  | Describe the structures and guest properties of Clathrate Hydrates. | CO4 | 20 |
| **(OR)** | | | | |
| 8. |  | Explain the structure, composition and catalysis property of Zeolites. | CO4 | 20 |
|  | | **Compulsory**: |  |  |
| 9. | a. | Discuss Coordination polymers and its applications. | CO5 | 10 |
| b. | Identify the important applications of Metal Organic Frame works. | CO6 | 10 |