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



**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

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

**Supplementary Examination – June – 2017**

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| **Code :** | **14BT2014** | **Duration :** | **3hrs** |
| **Sub. Name :** | **BIOORGANIC PRINICPLES** | **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. | Discuss the cis & trans system of configuration with suitable examples. | CO1 | 10 |
| b. | Illustrate about D and L system of configuration. | CO1 | 10 |
| (OR) | | | | |
| 2. |  | Describe the principle and instrumentation of polarimeter. | CO1 | 20 |
| 3. |  | Explain how the protein stability is maintained throught various bonds. | CO2 | 20 |
| (OR) | | | | |
| 4. |  | Explain the mechanism of nucleophilic substution reaction with suitable examples. | CO2 | 20 |
| 5. |  | Describe the catalytic mechanism of action of Lysozyme enzyme. | CO3 | 20 |
| (OR) | | | | |
| 6. |  | Illustrate the mechanism of action of any two proteases. | CO3 | 20 |
| 7. |  | Discuss about the mechanism of action of HIV-1 protese in detail. | CO3 | 20 |
| (OR) | | | | |
| 8. |  | Describe the mechanism of ester bond hydrolysis. | CO3 | 20 |
|  | | **Compulsory**: |  |  |
| 9. | a. | Describe the mechanism of action of nicotinamide coenzymes in oxidation and reduction reactions. | CO3 | 10 |
|  | b. | Write notes on role of tetrahydro folate in enzyme catalysis. | CO3 | 10 |

ALL THE BEST