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 :** | **14BT2005** | **Duration :** | **3hrs** |
| **Sub. Name :** | **MICROBIOLOGY** | **Max. marks :** | **100** |

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

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| Q. No. | Sub Div. | Questions | Course  Outcome | Marks |
| 1. |  | What is the significance of Koch’s Postulate? Elaborate the four narrations of the Koch postulates. | CO1 | 20 |
| (OR) | | | | |
| 2. |  | Mention the different phases of bacterial growth curve with a neat diagram and mention the process occurring in each phase. | CO1 | 20 |
|  |  |  |  |  |
| 3. |  | Mention the different types of classification of Microorganism and mention in detail the Five kingdom concept. | CO2 | 20 |
| (OR) | | | | |
| 4. |  | What are the different types of the culture media? Mention the nutritional types of Microorganism. | CO2 | 20 |
|  |  |  |  |  |
| 5. | a. | Give a brief note on lytic and lysogeny cycle of bacteriophages | CO4 | 10 |
|  | b. | Chemical agents that are used for control of microorganism’s growth- Discuss. | CO3 | 10 |
| (OR) | | | | |
| 6. |  | Draw a neat diagram of the Bright Field and Fluorescent Microscope, and mention the different parts of the microscope and their function. | CO3 | 20 |
|  |  |  |  |  |
| 7. | a. | Define VAM? Brief a note on the action mechanism of VAM. | CO5 | 10 |
|  | b. | Define fermented food. Give a detailed note on the production of any one fermented food. | CO5 | 10 |
| (OR) | | | | |
| 8. |  | What are biopesticides. Discuss in detail the mode of action of biopesticides with suitable examples. | CO5 | 20 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. |  | Illustrate the structure and chemical composition of Gram positive and Gram negative bacterial cell wall. | CO3 | 20 |

ALL THE BEST