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 :** | **15BT3006** | **Duration :** | **3hrs** |
| **Sub. Name :** | **MOLECULAR MICROBIOLOGY** | **Max. marks :** | **100** |

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

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| Q. No. |  | Questions | Course  Outcome | | Marks |
| 1. |  | Elaborate the Historical perspective and early evidences to show that DNA is the genetic material. | CO1 | | 20 |
| (OR) | | | | | |
| 2. |  | Discuss in detail the Genome Organization in E-coli. | CO1 | | 20 | |
| 3. |  | Outline the significance of various enzymes involved in DNA replication process. | CO2 | 20 | |
| (OR) | | | | | |
| 4. |  | Explain in detail the DNA Replication in Eukaryotes with a neat diagram. | CO2 | 20 | |
| 5. |  | Summarize the processes of Transcription and Translation in Prokaryotes. | CO3 | 20 | |
| (OR) | | | | | |
| 6. |  | Explain in detail the Prokaryotic Genome Anatomy. | CO3 | 20 | |
| 7. |  | Summarize the process of Gene Expression as explained by David Wheeler *at. al.,* 2008. | CO3 | 20 | |
| (OR) | | | | | |
| 8. |  | Explain the various methods by which Bacterial viruses replicate with neat labelled diagrams. | CO1 | 20 | |
|  | | **Compulsory:** |  |  | |
| 9. |  | Elaborate the significance of Cloning and Gene Expression from the research paper you have studied. | CO3 | 20 | |

**ALL THE BEST**