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 – Nov/Dec – 2016**

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|  |  | **Semester :** | **2016-17ODD** |
| **Code :** | **14BT3008** | **Duration :** | **3hrs** |
| **Sub. Name :** | **BIOPHARMACEUTICAL TECHNOLOGY** | **Max. marks :** | **100** |

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

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| **Q. No** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. |  | Write about the mechanism of drug absorption and its kinetics. | CO1 | 20 |
| (OR) | | | | |
| 2. | a. | Explain the biotechnology based production of following – Somatostatin. | CO1 | 10 |
| b. | Interferons | CO1 | 10 |
| 3. |  | Write a detailed note on materials used in various drug formulation. | CO1 | 20 |
| (OR) | | | | |
| 4. | a. | Explain - Controlled drug delivery systems. | CO2 | 10 |
|  | b. | Novel drug delivery systems. | CO2 | 10 |
| 5. |  | Discuss in detail - production of monolcolnal antibodies. | CO2 | 20 |
| (OR) | | | | |
| 6. |  | Describe the process of treatment of disease with the advent of gene transplantation. | CO2 | 20 |
| 7. |  | What are biopharmaceuticals? Explain its history and development. | CO3 | 20 |
| (OR) | | | | |
| 8. |  | Explain the process involved in the good manufacturing practices of a drug. | CO3 | 20 |
|  | | **Compulsory:** |  |  |
| 9. |  | Discuss the involvement of FDA regulations in Clinical trials. | CO3 | 20 |

ALL THE BEST