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 :** | **V** |
| **Code :** | **14BT2045** | **Duration :** | **3hrs** |
| **Sub. Name :** | **BIOPHARMACEUTICAL TECHNOLOGY** | **Max. marks :** | **100** |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. |  | Explain the process of drug metabolism with diagrams. | CO1 | 20 |
| (OR) | | | | |
| 2. |  | Explain the various routes of administration of drugs with diagrams. | CO1 | 20 |
| 3. | a. | What are capsules? | CO2 | 5 |
|  | b. | Explain its manufacture and quality assurance. | CO2 | 15 |
| (OR) | | | | |
| 4. |  | Explain the dry and wet granulation in manufacture of tablets. | CO2 | 20 |
| 5. |  | Write a detailed note on Clinical Trials and its regulations in drug industry. | CO2 | 20 |
| (OR) | | | | |
| 6. |  | Explain the process of manufacture drugs using rDNA technology. | CO1 | 20 |
| 7. | a. | Write notes on – oral liquids. | CO2 | 10 |
|  | b. | Oinments. | CO2 | 10 |
| (OR) | | | | |
| 8. |  | What are parental solutions, describe its advantages over other formulations. | CO2 | 20 |
|  | | **Compulsory:** |  |  |
| 9. | a. | Highlight the FDA regulations in pharmaceutical industry. | CO3 | 10 |
|  | b. | Describe GLP and GMP practices involved in the development and formulation of a drug. | CO3 | 10 |

ALL THE BEST