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 :** | **14BT2045** | **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. |  | Illustrate the process of manufacture of tablets with diagrams. | CO2 | 20 |
| (OR) | | | | |
| 2. |  | What are capsules? Explain its manufacruting procedure. | CO2 | 20 |
| 3. | a. | Define is Pharmacokinetics. | CO1 | 5 |
|  | b. | Recall the therapeutic effect of any drug. | CO1 | 15 |
| (OR) | | | | |
| 4. |  | Differentiate pharmacodynamics and pharmacokinetics. | CO1 | 20 |
| 5. |  | Distinguish the concept of ADME with diagrams. | CO1 | 20 |
| (OR) | | | | |
| 6. |  | Evaluate the excretion process of drugs. | CO1 | 20 |
| 7. |  | Examine the biotechnology production of bio pharmaceuticals using rDNA technology. | CO2 | 20 |
| (OR) | | | | |
| 8. |  | Asses bio-pharmaceuticals with an example of plant, animal or microbe derived product with therapeutic effect. | CO2 | 20 |
|  | | **Compulsory:** |  |  |
| 9. |  | Justify the various steps involved in clinical trials. | CO2 | 20 |