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 :** | **I** |
| **Code :** | **14BT3008** | **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. | a. | Write about the mechanism of drug absorption and its kinetics |  | **20** |
| **(OR)** | | | | |
| 2. | a. | Explain the biotechnology based production of following - Somatostatin |  | **10** |
| b. | Interferons |  | **10** |
|  |  |  |  |  |
| 3. | a. | Write a detailed note on materials used in various drug formulation |  |  |
| **(OR)** | | | | |
| 4. | a. | Explain - Controlled drug delivery systems |  | **10** |
|  | b. | Novel drug delivery systems |  | **10** |
|  |  |  |  |  |
| 5. | a. | Discuss in detail - production of monolcolnal antobodies |  | **20** |
| **(OR)** | | | | |
| 6. | a. | Describe the process of treatment of disease with the advent of gene transplantation |  | **20** |
|  |  |  |  |  |
| 7. | a. | What are biopharmaceuticals? Explain its history and development |  | **20** |
| **(OR)** | | | | |
| 8. | a. | Explain the process involved in the good manufacturing practices of a drug |  | **20** |
|  | |  |  |  |
|  | | **Compulsory:** |  |  |
| 9. | a. | Discuss the involvement of FDA regulations in Clinical trials |  | **20** |

ALL THE BEST