Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_



**End Semester Examination – Nov/Dec– 2017**

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|  |  |  |  |
| **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. | Elaborate the preclinical and the 3 phases of drug review process. | CO1 | 10 |
| b. | Outline the history of Pharma industry. | CO1 | 5 |
| c. | Summarize the global economical impact on biopharma industry. | CO1 | 5 |
| (OR) | | | | |
| 2. | a. | Evaluate the various process involved in tablet and capsules production. | CO1 | 15 |
| b. | Infer the influence of biopharma products in market. | CO1 | 5 |
|  |  |  |  |  |
| 3. | a. | State the importance of vaccines. | CO1 | 7 |
|  | b. | Demonstrate the process of apoptosis and necrosis. | CO2 | 13 |
| (OR) | | | | |
| 4. | a. | Criticize on gene therapy. | CO2 | 10 |
|  | b. | Explain the application of plants and microbes in biopharma industry. | CO2 | 10 |
|  |  |  |  |  |
| 5. | a. | Illustrate rDNA technology. | CO2 | 10 |
|  | b. | Compose the process of pharmacokinetics of drug. | CO2 | 10 |
| (OR) | | | | |
| 6. | a. | Summarize the importance of monoclonal antibodies in biopharmaceutical industry. | CO2 | 10 |
|  | b. | Distinguish control and novel drug delivery system. | CO1 | 10 |
|  |  |  |  |  |
| 7. | a. | Evaluate the drug and patient-related factors that determine the selection of routes for drug administration. | CO1 | 10 |
|  | b. | Compile the various routes of drug administration. | CO1 | 10 |
| (OR) | | | | |
| 8. | a. | Explain the process of formulations by using excipients and incipients. | CO1 | 10 |
|  | b. | Appraise the manufacturing process of the Changampalli Ayurveda manufacturing unit where you visited and observed. | CO2 | 10 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. | a. | Elaborate the mechanism of ADME process of drug. | CO1 | 15 |
|  | b. | List your opinion on Cytochrome P450. | CO2 | 5 |

ALL THE BEST