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

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**End Semester Examination – Nov/Dec – 2018**

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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. |  | Elaborate the metabolism of drug by explaining the physico-chemical principles and actions of drugs. | CO1 | 20 |
| (OR) | | | | |
| 2. | a. | Outline the tablet manufacturing process. | CO1 | 10 |
| b. | Explain the process of capsule manufacturing. | CO1 | 10 |
|  |  |  |  |  |
| 3. | a. | Analyse the various routes of drug administration. | CO1 | 10 |
| b. | Summarize the preparation of solid dosage forms. | CO2 | 5 |
| c. | Demonstrate the preparation of liquid dosage forms. | CO2 | 5 |
| (OR) | | | | |
| 4. | a. | Discuss the manufacturing process of ointments. | CO2 | 8 |
| b. | Explain the advantages and disadvantages of injection. | CO1 | 6 |
| c. | State the importance of quality control for pharma products. | CO3 | 6 |
|  |  |  |  |  |
| 5. |  | Illustrate the preparation of parental solutions with their advantages and disadvantages. | CO2 | 20 |
| (OR) | | | | |
| 6. | a. | Write on account of antacids and antiseptics. | CO2 | 10 |
| b. | Tabulate the differences between antiseptics and antibiotics citing any two examples. | CO2 | 10 |
|  |  |  |  |  |
| 7. | a. | Define suppository and give any two examples. Explain the mechanism and usage of suppositories. | CO2 | 8 |
| b. | Discuss in detail about laxatives, cold and cough remedies. | CO2 | 12 |
| (OR) | | | | |
| 8. | a. | Justify the necessity of Good laboratory Practice in Pharma industry | CO3 | 15 |
| b. | Summarize the importance of Indian Pharmacopeia. | CO3 | 5 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. |  | Explain the various steps involved in the drug review process to obtain the approval. | CO3 | 20 |