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**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
| **Code :** | **14BT2007** | **Duration :** | **3hrs** |
| **Sub. Name :** | **BASIC INDUSTRIAL BIOTECHNOLOGY** | **Max. marks :** | **100** |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Q. No. |  | Questions | Course  Outcome | Marks |
| 1. |  | Give a detailed account on lysine production technique and mention its applications. | CO3 | 20 |
| (OR) | | | | |
| 2. |  | Give a historical overview for the development of industrial fermentation process. | CO2 | 20 |
| 3. |  | What is downstream processing? Give an account on any three downstream process. | CO1 | 20 |
| (OR) | | | | |
| 4. |  | Explain the overall procedure for beer production process. | CO3 | 20 |
| 5. |  | Explain how can PHB be produced with a neat flow-sheet? | CO3 | 20 |
| (OR) | | | | |
| 6. |  | Explain the procedure for SCP production process. | CO3 | 20 |
| 7. |  | Describe in details for biosynthetic production process of biopreservatives. | CO3 | 20 |
| (OR) | | | | |
| 8. |  | Explain the production process of penicillin. | CO3 | 20 |
|  | | **Compulsory:** |  |  |
| 9. |  | Describe the commercial production process of monoclonal antibodies. | CO1 | 20 |

ALL THE BEST