| Name | | | | Printed Pages:01 | | |
|---|--|--|--------------|------------------|-------|--|
| Student Admn. No.: | | | | | | |
| School of Basic and Applied Sciences Backlog Examination, June 2023 | | | | | | |
| [Programme: B.Sc. Medical Biotechnology] [Semester: IV] [Batch: 2020-23] | | | | | | |
| Course Title: Red Biotechnology | | | | Max Marks: 100 | | |
| Course Code: BBBMBT4006 | | | Time: 3 Hrs. | | | |
| <i>Instructions:</i> 1. All questions are compulsory. | | | | | | |
| 2. Assume missing data suitably, if any. | | | | | | |
| | | | K Level | COs | Marks | |
| SECTION-A (15 Marks) 5 Marks each | | | | | | |
| 1. | Enlist the applications of protein engineering. | | | | 5 | |
| 2. | 2. Explain the role of restriction endonuclease with examples. | | | | 5 | |
| 3. | 3. Identify the characteristics of antigen-antibody interaction. | | | | 5 | |
| SECTION-B (40 Marks) 10 Marks each | | | | | | |
| Explain the process of batch culture and identify two merits and demerits of batch and fed-batch culture. | | | | | 10 | |
| 5. | Discuss the role of microbes in the pharmaceutical industry with examples. | | | | 10 | |
| 6. | Discuss the process and challenges of hybridoma technology. | | | | 10 | |
| 7. | Elaborate the process of biotransformation. | | | | 10 | |
| SECTION-C (45 Marks) 15 Marks each | | | | | | |
| 8. | Discuss th | e design of a bioprocess vessel with a diagram. | | | 15 | |
| 9. | Explain ar | ad compare variants of ELISA. | | | 15 | |
| 10 | Distinguis compleme Compare t | h between the activation mechanisms of three pathways of the nt system. OR he three modes of complement system activation and its regulation. | | | 15 | |