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



**End Semester Examination – Nov / Dec – 2019**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
| **Code :** | **17BI2005** | **Duration :** | **3hrs** |
| **Sub. Name :** | **GENOMICS AND PROTEOMICS** | **Max. Marks :** | **100** |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Q. No.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | Elucidate the organization of genes in the genome of prokaryotes. | CO1 | 20 |
| (OR) | | | |
| 2. | Elaborate on the organization of genes on the eukaryotic chromosome. | CO1 | 20 |
|  |  |  |  |
| 3. | Explain how prokaryotic DNA is packaged. | CO1 | 20 |
| (OR) | | | |
| 4. | Illustrate the packaging of the eukaryotic genome in the nucleus. | CO1 | 20 |
|  |  |  |  |
| 5. | Explain in detail about DNA markers and its types. | CO1 | 20 |
| (OR) | | | |
| 6. | Discuss dideoxy Chain Termination method of sequencing DNA. | CO2 | 20 |
|  |  |  |  |
| 7. | Elucidate two dimensional gel electrophoresis with emphasis on its impact on proteomics. | CO2 | 20 |
| (OR) | | | |
| 8. | Explain in detail the techniques employed in Functional Genomics. | CO4 | 20 |
|  |  |  |  |
|  | **Compulsory**: |  |  |
| 9. | Evaluate the importance and concerns of HGP. | CO1 | 20 |