



The University of Burdwan
B.Sc. (Hons.) Semester VI Examination, 2020
Subject- Biotechnology
Paper- CC14 (Genomics & Proteomics)

Full Marks: 40

Time: 2 Hrs

1. Answer *any eight* questions from the following : 5 x 8 = 40

- a. Explain Human Genome Project and its importance. 5
- b. Discuss the Dideoxy Chain terminator reaction based DNA sequencing method. 5
- c. Write the principle of SDS-PAGE with suitable diagram. 5
- d. With Suitable examples write the importance of Genome browsers. 5
- e. Explain briefly on "Mass spectrometry based methods for identification of protein". 5
- f. What are Proteomics, Genomics, Native PAGE, Database and Model organisms ? 5
- g. Write a short note on Isoelectric focusing (IEF). 5
- h. Write a short note on "Web based servers and softwares for genome analysis" 5
- i. Discuss the Pyrosequencing technique. 5
- j. Write a short note on shotgun genome sequencing approach. 5