COURSE CODE: 16B11BI612                    MAX. MARKS: 15
COURSE NAME: Datawarehousing and Mining for Bioinformatics
COURSE CREDITS: 04                         MAX. TIME: 1 HR.

*Note: All questions are compulsory.*
*Use technical lexicon and answer all questions succinctly . Keep calm and attempt the questions.*

1. Compare a datawarehouse to database, highlighting the differences in optimization, data structure, timeline and applications. (CO-I) (4)

2. Explain how circular pixel-oriented visualization is better than its linear version. (CO-II) (2)

3. Which is better- histogram or boxplot and why? (CO-II) (1)

4. How does Hilbert Curve Visualization (HCV) complement genome browsers? Describe the application of HCV in bioinformatics. (CO-II) (3)

5. Illustrate through any example of your choice (be creative, create an example dataset with any feature values) how can we can calculate the dissimilarity between two objects that are described using binary attributes. (CO-I) (2)

6. As a bioinformatics undergraduate, how will your learning of this subject impact upon your growth as a budding bioinformatician and in what way do you think will it enhance your career in the long run? Discuss in the light of contemporary developments in the arena of bioinformatics. (CO-I) (3)