

B.Sc. Second Year (Data Science) NEP Semester-IV  
**BSCDS043 - Internet Programming with Big Data**

P. Pages : 1

Time : Two Hours



**GUG/S/25/16834**

Max. Marks : 40

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1. a) What is Big data in the context of IoT. 4
- b) What are the main problem in gathering data from IoT devices? 4
- OR**
- c) How do IoT devices collect data? 4
- d) Name any two methods used to store IoT data and explain them briefly. 4
2. a) Why is it important to decide where to store IoT data? 4
- b) What is the difference between Edge, Fog and Cloud computing? 4
- OR**
- c) When should data be processed at the Edge instead of the Cloud? 4
- d) How does Edge Computing help in processing IoT data? 4
3. a) What are the advantages of storing data in the Cloud? 4
- b) What is the difference between live data and stored data. 4
- OR**
- c) What is cloud storage and why is it important for IoT data? 4
- d) Why is IoT data often processed in the Cloud instead of an local devices? 4
4. a) What are the steps involved in obtaining data for analysis? 4
- b) How can Python and R be used for analysing large datasets? 4
- OR**
- c) What is a predictive model, and how is it used in data analysis. 4
- d) What are some common ways to visualize large datasets? 4
5. a) Why is data acquisition IoT? 2
- b) What factors determine whether IoT data should processed at the Edge, Fog and Cloud? 2
- c) How is data cleaned before analysis in the Cloud? 2
- d) Why is data cleaning important before analysis. 2

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