**Time: 03 Hours** **Marks: 80**

**N.B.** **Question No.1 is Compulsory.**
**Attempt any THREE questions out of remaining.**
**Assume suitable data wherever required.**

| | | Marks |
|---|---|---|
| **Que.1.** | | |
| (a) | How big data analysis provide competitive advantage to industries. | **5** |
| (b) | What is False Positive in a Bloom Filter? Give example. | **5** |
| (c) | Define distance measure and give formula of cosine similarity. | **5** |
| (d) | Write down the limitations of Hadoop. | **5** |
| **Que.2.** | | |
| (a) | Describe the HDFS. How does HDFS manage the storage and replication of data across a distributed cluster of machines. | **10** |
| (b) | Explain the term NOSQL? Differentiate Master Slave Versus Peer-to-peer distribution models. | **10** |
| **Que.3.** | | |
| (a) | What is DGIM algorithm? Explain with example. | **10** |
| (b) | Explain Map Reduce Task and following operations using Map-Reduce- 1) Selection 2) Projection | **10** |
| **Que.4.** | | |
| (a) | Explain Content based filtering with example. | **10** |
| (b) | Explain following NOSQL data architectural pattern in detail - 1) Key value stores 2) Graph stores | **10** |
| **Que.5.** | | |
| (a) | What is data stream management system? How does it works? | **10** |
| (b) | Explain Euclidean distance and Jaccard distance with example. | **10** |
| **Que.6.** | | |
| (a) | Write note on social network as graph. | **10** |
| (b) | Describe characteristics of big data with example. | **10** |

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