

Write note on:

a)

- i) Apriori Algorithm.
- ii) FP growth algorithm.
- b) What do you mean by mining frequent patterns, association and correlation? Elaborate by **6** giving example.

## OR

- 8. a) Explain how to improve efficiency of Apriori algorithm & FP growth algorithm in detail. 14
- 9. a) What do you mean by web Data mining? Explain various steps involved in WDM.
  - b) How data mining is useful in customer relationship management in e-business world?

## OR

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- **10.** a) Explain the concept of visual web data mining in detail.
  - b) Differentiate temporal and spatial data mining in detail.
- **11.** a) Describe the current challenges of Big Data problem.
  - b) Explain Map-Reduce paradigm and Hadoop in short.

## OR

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**12.** a) Define Big Data? Describe various technologies for big data management.

b) Write short note on: Big Data Technology and tools.

NKT/KS/17/7596