P3188

[5354]-705

B.E. (Information Technology)
ADVANCED DATABASES
(2012 Pattern) (Semester - II)

Time : 2½ Hours]

[Max. Marks :70

Instructions to the candidates:

1) *Answer Q1. or Q.2, Q3 or Q4, Q5 or Q6, Q7 or Q8, Q9 or Q10.*
2) *Neat diagrams must be drawn wherever necessary.*
3) *Figures to the right indicate full marks.*
4) *Assume suitable data if necessary.*

Q1) a) Explain with example concept of Distributed Query processing in Distributed database? **[5]**

b) Write short note on Parallel Database Architecture. **[5]**

OR

Q2) a) Explain concept of 2PC Two Phase commit protocol in distributed transactions. **[5]**

b) What is NoSQL? Explain different types of NoSQL Databases. **[5]**

Q3) a) Describe storage and access methods in ORDBMS? **[5]**

b) Explain concept of CQL Data Model and Indexing in Detail. **[5]**

OR

Q4) a) What is Big Data? Explain in detail applications of Big Data. **[5]**

b) Write short notes on Key Value based Dynamodb? **[5]**

Q5) a) What are Graph Database and Graph Mining? Why Graph Mining is Important? Explain different applications of Graph Mining. **[8]**

b) What is Social Network Analysis? Explain with example. **[8]**

OR

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Q6) a) What is a social Network? Explain concept of mining on social networks **[8]**

  b) Write a short note on following **[8]**
  - i) Data Stream Mining
  - ii) Apache Flume NG

Q7) a) What is text mining? Explain Techniques of Text Mining in detail. **[6]**

  b) Describe Discovery and Analysis of web usage patterns in detail. **[6]**

  c) Explain Data Modeling for web usage mining in detail. **[6]**

OR

Q8) a) Explain mining web linkage structure in detail. **[6]**

  b) Explain different methods of Text categorization in detail. **[6]**

  c) Explain Information Retrieval and Information extraction in detail. **[6]**

Q9) a) Explain different challenges to develop cloud databases. **[8]**

  b) Write a short note on Spatial Databases. **[8]**

OR

Q10) a) Compare Multimedia and Cloud databases. **[8]**

  b) What is deductive database? Explain fixed point operator in deductive Database. **[8]**

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