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BE Degree Examination November 2016

Fifth Semester

Computer Science and Engineering

14CSE01 – ADVANCED DATABASES

(Regulations 2014)

Common to BTech Information Technology

Time: Three hours

Maximum: 100 marks

Answer all Questions

Part – A ($10 \times 2 = 20$ marks)

1. State the objectives of distributed concurrency control.
2. What is distributed query processing?
3. List down the steps involved in mapping the conceptual design to a logical object oriented design.
4. Give some examples for object relational database.
5. Mention the objectives for the development of JDO.
6. Why is semi structured data important? Justify.
7. Specify the potential applications for active databases.
8. What do you mean by tuple versioning?
9. Write down any four characteristics of NoSQL related to distributed systems.
10. What is big data? Mention the characteristics of big data.

Part – B ($5 \times 13 = 65$ marks)

11. a. i) Draw the architecture of distributed database management system and explain its functionality. (6)
ii) Show how the concurrency control schemes are used in distributed databases. (7)

(OR)

- b. i) Briefly explain the transaction processing model. (6)
ii) Why queries are to be optimized? With an example explain how queries are optimized. (7)
12. a. i) Examine the architectures for OODBMS with appropriate sketches. (6)
ii) Draw the architecture and describe the functionality of object store. (7)