

B.E DEGREE EXAMINATIONS: JUNE/JULY 2013

Fifth Semester.

COMPUTER SCIENCE AND ENGINEERING

CSE115: Advanced Database Technologies

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. A _____ is a logically interrelated collection of shared data, physically distributed over a computer network.
 - a) Database
 - b) Multimedia database
 - c) Distributed database
 - d) Multi database
2. _____ fragments are subsets of tuples.
 - a) Horizontal
 - b) Vertical
 - c) Mixed
 - d) Derived
3. _____ optimization takes account of statistical information to find a near-optimal execution plan.
 - a) Local
 - b) Global
 - c) Query
 - d) Data
4. In _____, a transaction acquires all its locks before releasing any.
 - a) Two-phase locking
 - b) Time-stamping
 - c) Deadlock
 - d) Two-phase commit
5. An _____ is a uniquely identifiable entity that contains both the attributes and the actions that are associated with it.
 - a) State
 - b) Object
 - c) Behavior
 - d) Methods
6. An _____ is a persistent and sharable repository of objects defined in an OODM.
 - a) OODB
 - b) OODBMS
 - c) OODM
 - d) FDM
7. _____ to define the standards for OODBMS.
 - a) ODMG
 - b) OODBMS
 - c) DBMS
 - d) DDBMS
8. The ODMG OM is a _____ of the OMG OM.
 - a) Subset
 - b) Superset

may make them unsuitable for advanced database applications.

(OR)

b) List the issues in OODBMS and explain with an example.

24. a) Discuss the main concepts of the ODMG Object Model. Give an example to illustrate each of the concepts.

(OR)

b) Compare the ORDBMS and OODBMS with the three perspectives such as data modeling, data access and data sharing. Explain.

25. a) Describe in detail deductive databases.

(OR)

b) Explain in detail mobile databases.
