Reg. No. : ....

Name : ....

Fifth Semester M.C.A. Degree (Regular) Examination, January 2017
(2014 Admission)
MCA 5C26 : ADVANCED DATABASE MANAGEMENT SYSTEMS

Time : 3 Hours   Max. Marks : 80

SECTION – A

Answer **any ten** questions. **Each** question carries **three** marks.

1. Compare and contrast functions and procedures in programming language.

2. What are the merits of B+ tree index files ?

3. List out the merits of the dynamic hashing.

4. What are the various measures of query cost ?

5. Discuss the evaluation of expressions.

6. How the choice of evaluation plans are useful ?

7. Compare and contrast transaction isolation and atomicity.

8. Define multiple granularity.

9. How interquery parallelism is different from intraquery parallelism ?

10. Comparison between homogeneous and heterogeneous databases.

11. What are the uses of hyperlinks in information retrieval ?

12. How table inheritance is differ from simple inheritance ?   (10×3=30)

P.T.O.

SECTION – B

Answer **all** questions. **Each** question carries **ten** marks.

13. a) i) Explain the OLAP file organization with suitable examples.   5

     ii) Explain the triggers and recursive queries with suitable examples.   5

OR

   b) Explain the B+ tree extensions and multiple key access with suitable
examples.   10

14. a) Explain the various operations of query with suitable examples.   10

OR

   b) Discuss the importance of query optimization with suitable examples.   10

15. a) Describe the storage structure and transaction process of simple model with
suitable examples.   10

OR

   b) i) Explain the operations of buffer management with suitable examples.   5

     ii) What are the key roles of recovery system explain briefly ?   5

16. a) List out the principle properties of parallel databases, explain the merits and
demerits of each one.   10

OR

   b) Explain the significant features of cloud databases and distributed databases. 10

17. a) Explain the information retrieval important features in object based databases
with suitable examples.   10

OR

   b) i) Explain the implementation of object relational features with suitable
examples.   5

     ii) Discuss the structured types and inheritance SQL with suitable examples.   5

(5×10=50)

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