



K17P 0208

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)