

NAME _____

ROLLNO _____

2006-ANNA UNIVERSITY

**B.E/B.TECH DEGREE EXAMINATION
DATA BASE MANAGEMENT SYSTEM
(INFORMATION TECHNOLOGY)**

DECE-2006

**TIME-3 HOUR
MARKS-100**

ANSWER ALL QUESTIONS.

PART A - (10 * 2 = 20 MARKS)

1. DEFINE THE TERMS SUPER KEY AND CANDIDATE KEY?
2. LIST THE COMPONENTS AND RESPONSIBILITIES OF THE STORAGE COMPONENT MANAGER?
3. HOW CAN YOU EXPRESS QUERIES IN QUERY BY EXAMPLES(QBE) QBE HAS TWO INSTINCTIVE FEATURES?
4. DEFINE THE TERMS AUTHENTICATION AND AUTHORIZATION.
5. WHAT DO YOU MEAN BY RAID? MENTION ITS SIGNIFICANCE.
6. DISTINGUISH BETWEEN STATIC HASHING AND DYNAMIC HASHING?
7. LIST THE OPERATIONS INVOLVED IN QUERY PROCESSING?
8. DISCUSS PIPELINING?
9. WHAT ARE THE STATES OF A TRANSACTION? EXPLAIN.
10. WHAT IS THE PURPOSE OF CHECK POINT MECHANISM?

PART B - (5 * 16 = 80 MARKS)

11. (I) EXPLAIN THE DESIGN OF ENTITY RELATIONSHIP DIAGRAM SCHEMA WITH A SUITABLE EXAMPLE.
11. (II) DISCUSS THE RESPONSIBILITY OF DRA?
12. (a) (I)DISCUSS THE VARIOUS SET OPERATIONS THAT OPERATE ON A RELATION WITH SUITABLE EXAMPLE.
12. (a) (ii)DISCUSS THE DIFFERENT TYPES OF JOINS IN QUERIES?
12. (b) EXPLAIN ABOUT INTEGRITY CONSTRAINTS IN DATABASE WITH EXAMPLES.
13. (a) DISCUSS AS TO HOW TO HASHNG TECHNIQUE OVERCOMES DRAWBACKS IN SEQUENTIAL FILE ORGANIZATION.
13. (b) DISCUSS HOW FILE ORGANIZATION IS IMPLEMENTED USING B+ TREE?
14. (a) EXPLAIN THE VARIOS ISSES TO BE CONSIDERED IN THE EVALUATION OF EXPRESSIONS,WITH PROPER ILLUSTRATION.
14. (b) WRIREDOWN THE PROCEDURE TO PERFORM HEURISTICS OPTIMIZATION AND EXPLAIN?
15. (a) EXPLAIN CONFLICT SERIALIZATION WITH EXAMPLE?
15. (b) EXPLAIN SHADW PAGING CONFLICT?
15. (c) WRITE SHORT NOTES ON DATA DICTIONARY?
15. (d) WRITE SHORT NOTES ON BUFFER MANAGEMENT?