B.M.S COLLEGE FOR WOMEN AUTONOMOUS BENGALURU - 560004

END SEMESTER EXAMINATION – SEPTEMBER / OCTOBER 2022

B.C.A. - II Semester Database Management System

Course Code: BCA2DSC06 QP Code: 2034 Duration: 2 ½ Hours Max marks: 60

Instruction: Answer all the sections.

SECTION-A

Answer any TEN questions. Each question carries TWO marks

(10x2=20)

- 1. What is DBMS? Mention any two functions of DBMS.
- 2. Define Schema.
- 3. What do you mean by cardinality ratio?
- 4. Define Data Independence.
- 5. What is Heap file?
- 6. Define Primary Key and Foreign Key.
- 7. What is functional dependency?
- 8. Explain Commit and rollback Commands.
- 9. Write Syntax of UPDATE Command?
- 10. What are ACID Properties?
- 11. What is Trigger?
- 12. What is Transaction?

SECTION-B

Answer any SIX questions. Each question carries FIVE Marks

(6x5=30)

- 13. Explain roles and Responsibilities of DBA.
- 14. Explain three schema architecture with neat diagram.
- 15. What is data model? Explain different data models.
- 16. What is an entity? Explain E-R Notations used in database schema design.

- 17. Explain DDL Commands?
- 18. Explain any five aggregate functions with example.
- 19. Explain SELECTION and PROJECTION.
- 20. Consider the Below Relation

STUDENT (Register Number, Name, Course, Gender)

- a) Create above table.
- b) Insert five tuples.
- c) Add new attribute phone number to the relation.
- d) Count no. of girls in BCA Course.
- e) Display Register number, Name, Course, phone number.

SECTION-C

Answer ONE question, carries TEN Marks

(1x10=10)

- 21. What is normalization? Explain INF, 2NF, 3NF with example.
- 22. What is an attribute? Explain Different types of attributes.
- 23. What is join? Explain different types of joins in SQL?
