1B4M17053 (Pages : 2) Reg. No:.....

Name: .....

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Fourth Semester B.Sc Computer Science Degree Examination, March 2017

BCS4B06 – Fundamentals of Database Management systems & RDBMS

(2015 Admission onwards)

Max. Time: 3 hours Max. Marks: 80

PART A

Answer all questions, each question carries 1 mark.

Fill in the blanks

1. The command used to change the column values in a table is _____
2. _____ part of the DBMS provides interfaces with programming languages
3. _____ level describes the details of how data is actually stored in the memory
4. The predefined set of possible values an attribute can take is knows as _____
5. A collection of related data is known as _____
6. Duplication of data in a database is known as _____
7. In DBMS architecture, the level closest to the user is _____
8. The meta data is stored in _____ file of the database
9. The key word used to avoid the duplication of column values during the selection operation is _____
10. The collection of information stored in a database at a particular moment is_____

(10 x 1 = 10 marks)

PART B

Answer all questions, each question carries 2 marks.

11. What is data independence?
12. What do you mean by a view?
13. What is a relation? Give an example.
14. Explain locks.
15. What is functional dependency (FD)?

(5 x 2 = 10 marks)

PART C

Answer any five questions, each question carries 4 marks.

16. What are keys? Explain .
17. Explain internal and external schema.
18. Which are the different transaction states?
19. How will you create user defined functions? Give an example.
20. Explain lost update problem with example.
21. Explain GROUP BY and HAVING clauses with example.
22. What are the drawbacks of normalization?
23. Explain integrity constraints.

(5 x 4 = 20 marks)

PART D

Answer any five questions, each question carries 8 marks.

24. Define normalization. Explain the different normal forms with example
25. What is an E-R model? Draw an E-R Diagram of a banking system
26. Explain the different types of locks
27. What are advantageous and disadvantages of data base system over conventional file systems
28. What are views? How will you create and display views
29. Explain the different update anomalies in relational data base design with examples
30. What are triggers? Explain the different types of triggers
31. What are cursors? Explain how cursors can be defined in SQL?

(5 x 8 = 40 marks)