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FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Fourth Semester B.Sc Degree Examination, March 2018 BCS4B06 – Fundamentals of Database Management Systems & RDBMS

(2016 Admission onwards)

Max. Time: 3 hours

Max. Marks: 80

Part A Answer all questions. Each question carries One mark

1.	SET concept is used in model.
2.	EER stands for
3.	A set of possible data values is called
4.	A table joined with itself is called
5.	is a type of constraint between two sets of attributes from the database.
6.	Write the name of the tool that allows us to eliminate redundancy from the database
7.	transaction property ensures that once transaction changes are done, they
	cannot be undone or lost, even in the event of a system failure.
8.	phase of 2PL protocol for concurrency control, a transaction can release
	existing locks, but no new locks can be obtained.
9.	statement retrieves data from one or more database tables, and assigns the
	selected values to variables or collections.
10.	In PL/SQL, triggers execute once for each row in a transaction.
	(10x1=10 Marks)

Part B Answer all questions. Each question carries *Two* marks

- 11. What is data Integrity?
- 12. What is the difference between TRUNCATE and DROP statements?
- 13. Define BCNF.
- 14. What you mean by cascading rollback?
- 15. Define PL/SQL functions with syntax.

(5x2=10 Marks)

Part C Answer any Five questions. Each question carries Four marks

- 16. What you mean by data redundancy and data inconsistency? Give example.
- 17. Discuss the different types of database users in brief.
- 18. What are keys? Discuss the various types of keys.
- 19. Define Normalization. List out the advantages of fully normalized table.
- 20. What are the data types in SQL? Explain with examples.
- 21. Explain the desirable properties of a decomposition.
- 22. Explain why a database is called self-describing.
- 23. Briefly explain the control structures in PL/SQL.

(5x4=20 Marks)

Part D Answer any Five questions. Each question carries Eight marks

- 24. Define data model. Explain any three data models in DBMS.
- 25. Explain database system structure with the help of a diagram.
- 26. Explain the different ways of joining multiple tables together with suitable example.
- 27. List and explain various DML and DDL commands in SQL.
- 28. Define functional dependency. Explain 1NF, 2NF and 3NF.
- 29. Define the term transaction. Explain ACID properties.
- 30. Explain the use of stored procedures and functions with suitable examples.
- 31. Explain the lost update problem with the help of a suitable example.

(5x8=40 Marks)