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Term End Examination - June, 2018
Diploma in Web Design
DWD-05: Database Management Systems

Time - 3 hours

Full Mark – 100

Answer all questions from Group - 'A', any four questions from Group - 'B', any four questions from Group - 'C' and any two question from Group- 'D'

Group 'A'

Mark: 1 × 10= 10

(Answer all the questions)

Q.No.1. (Choose the correct answer)

- i. Using which language can a user request information from a database?
 a) Query b) Relational c) Structural d) Compiler
- ii. A table on the many side of a one to many or many to many relationship must:
 a) Be in Second Normal Form (2NF) b) Be in Third Normal Form (3NF)
 c) Have a single attribute key d) Have a composite key
- iii. Which of the following makes the transaction permanent in the database?
 a) View b) Commit c) Rollback d) Flashback
- iv. Which of the following is used to get back all the transactions back after rollback?
 a) Commit b) Rollback c) Flashback d) Redo
- v. Dates must be specified in the format.
 a) mm/dd/yy b) yyyy/mm/dd c) dd/mm/yy d) yy/dd/mm
- vi. Ranking of queries is done by which of the following?
 a) Group by b) Order by c) Having d) Both Group by and Order by
- vii. In SQL the cross-tabs are created using.
 a) Slice b) Dice c) Pivot d) All of the mentioned
- viii. The attribute *name* could be structured as a attribute consisting of first name, middle initial, and last name. This type of attribute is called
 a) Simple attribute b) Composite attribute
 c) Multivalued attribute d) Derived attribute
- ix. Which of the following is a single valued attribute
 a) Register_number b) Address c) SUBJECT_TAKEN d) Reference
- x. Which of the following is a low level operator?
 a) Insert b) Update c) Delete d) Directory

PTO.

Group 'B'**Mark: 5 × 4= 20****Q.No.2 (Answer any four questions each within 50 words)**

- a) Explain the properties of a relational data model.
- b) What are different types of database languages?
- c) Write a short note on SQL Injection.
- d) Write the properties of decomposition
- e) What is the purpose of a Physical Data Model?
- f) What are Stored Procedures? Explain it.

Group 'C'**Mark: 10 × 4= 40****Q.No.3 (Answer any four questions each within 200 words)**

- a) Write the syntax of different DML commands with example.
- b) Write the Rules of Converting ER-Diagrams into tables.
- c) What is SQL? What are the different categories of SQL commands?
- d) Differentiate between Physical and Logical Data Independence.
- e) Explain the uses of different DDL Commands.
- f) Write the properties of a Relation or Table in a relational database.

Group 'D'**Mark: 15 × 2= 30****Q.No.4 (Answer any two questions each within 250 words)**

- a) What is a Key? What are different types of Keys in relational databases?
- b) What is a join? Explain the various categories of joins that can be used to join two tables?
- c) Discuss the roles and responsibilities of a Database Administrator (DBA).
- d) Create a table LOAE Account with following schema: (AccNo, CustName, LoanAmount, IntRate, Instalments, StartDate, Interest)

Write SQL queries for following question:

- i. Insert a least 5 rows in the table.
- ii. Display all the information of LOAE Account table.
- iii. Delete the AccNo of CustName James.
