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Term End Examination - June, 2017
Diploma in Computer Application (DCA)
DCS-05: RDBMS / MY SQL (2015 Syllabus)

Time - 3 Hours

Full Mark – 100

(Answer any four questions from Group - 'A', any two questions from Group - 'B' and any three questions from Group - 'C')

Group 'A'

Mark: 5 X 4= 20

(Answer any four questions each within 100 words)

Q. No. 1

- a) What is a database? What are the advantages of a database?
- b) What is meant by an entity and attribute?
- c) What do you mean by SQL? What are the characteristics of SQL?
- d) Define the terms primary key and foreign key?
- e) What do you mean by RDBMS? How it is different from DBMS?
- f) What is meant by Normalization? Why it is necessary?
- g) Mention the types of constraints specified in the CREATE command of DDL.

Group 'B'

Mark: 10 X 2= 20

(Answer any two questions each within 250 words)

Q. No. 2

- a) Write short notes on SQL in terms of relational databases.
- b) Write the elements and properties of a relation.
- c) List the applications of databases in day to day life.
- d) Is "BCNF is a stronger normal form than 3NF". Justify your answer?
- e) Write the advantages and disadvantages of relational data model.

Group 'C'

Mark: 20 X 3= 60

(Answer any three questions each within 500 words)

- Q. No.3. Describe the advantages and disadvantages of using of RDBMS. Give any two examples of popular RDBMS software.
4. Explain different types of constraints used in SQL with example.
 5. What is normalization? Explain 2NF and 3NF with proper example.
 6. Name various database languages. Differentiate between DDL and DML.

7. What is a Key? What are different types of Keys in relational databases?
8. Consider the relational schema below. Create database tables using SQL corresponding to the relational schema. Use references and constraints to explain how entity integrity and referential integrity rules are implemented.

EMPLOYEE (PERSON_NAME, STREET, CITY)

WORKS (PERSON_NAME, COMPANY_NAME, SALARY)

COMPANY (COMPANY_NAME, CITY)

MANAGES (PERSON_NAME, MANAGER_NAME)