

(4)

Group—D

4. Answer any *two* questions each within
300 words : 15×2=30

- (a) Explain different types of normalization in detail.
- (b) What is ER Diagram? Explain rules of converting ER diagrams into tables.
- (c) Define attribute. Discuss different types of attribute in relational databases.

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Course Code CSP - 43 DWD - 05 DCA - 05
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Term End Examination - December, 2019

DATABASE MANAGEMENT SYSTEMS

Post Graduate Diploma in Computer Application
(PGDCA)

Advance Diploma in Computer Application
(ADCA)

Diploma in Computer Applications (DCA)
Diploma in Web Design (DWD)

Time : 3 hours

Full Marks : 100

The figures in the right-hand margin indicate marks

Answer **all** Groups as directed

Group—A

1. Answer *all* the questions, each within 1
word or 1 sentence: 1×10=10

- (a) What is RDBMS?
- (b) List different types of keys used in SQL.
- (c) What is the primary key?

(2)

- (d) What is the use of rollback?
- (e) Give an example of a simple and composite attribute?
- (f) What is a strong entity?
- (g) List the operators of DDL.
- (h) List the different types of failure of transaction processing system.
- (i) What are the different types of join?
- (j) Give an example of a web browser.

Group—B

- 2.** Answer any *four* questions each within 100 words : $5 \times 4 = 20$
- (a) Differentiate between 1NF and 2NF.
 - (b) Explain about object-oriented data models.
 - (c) Explain basic operators used in SQL.
 - (d) List different DML commands.
 - (e) What is 2PL Protocol? Explain with example.

(3)

- (f) Discuss the advantages of relational data model.

Group—C

- 3.** Answer any *four* questions each within 200 words : $10 \times 4 = 40$
- (a) Explain the characteristics of Database System.
 - (b) Explain the purpose of the physical data model.
 - (c) What is log-based database recovery? How it is different from Shadow Paging?
 - (d) Write a brief note on DBA.
 - (e) What is constraint? Explain the use of primary key constraint.
 - (f) Write the benefits of a database system.