SRI KRISHNADEVARAYA UNIVERSITY

B.Sc. Degree Examination

Fifth Semester

MARCH 2021

Part II : Computer Science

Paper V : DATABASE MANAGEMENT SYSTEM

Time : 3 Hours   Max : 75 Marks

Section A   (5 × 5 = 25 Marks)

Answer any five questions.

1. Write about (a) Data (b) Information (c) Database.
2. Write about ANSI/Spark Data model.
3. What is an entity? What are the types of entities?
4. Write in brief about reduction ER diagram to Tables.
5. Write about relational integrity with example.
6. Write about QBE.
7. Write a short note on data types in SQL.
8. Write a short note on JOIN operation in SQL.
9. Write a short note on cursors.
10. Write a short note on Exception Handling.

Section B   (5 × 10 = 50 Marks)

Answer all questions.

11. (a) What is DBMS. What are the advantages of DBMS?

(*Or*)

(b) Explain about Database Architecture with a neat diagram.

12. (a) What is an ER Model. Explain different types of Attributes in ER Model with neat diagrams.

(Or)

(b) Write about Specialization and Generalization with example.

13. (a) Explain Relational Algebra Operations with examples.

(Or)

(b) Explain Turple Relational Calculus with Examples.

14. (a) Explain CODD Rules.

(Or)

(b) Explain DDL and DML Commands with examples.

15. (a) Explain the structure of PL/SQL Program.

(Or)

(b) What is a trigger. Write about various types of triggers.

SRI KRISHNADEVARAYA UNIVERSITY

B.A./B.Sc. Degree Examination

Fifth Semester

OCTOBER 2019

Part II : Computer Science/Computer Applications

(Regular/Supplementary)

DATA BASE MANAGEMENT SYSTEMS

(Common for B.A. (CA)& B.Sc (CS))

Time : 3 Hours   Max : 75 Marks

Section A (5 × 5 = 25 Marks)

Answer **five** *questions.*

1. Write about File based system.
2. What are the Advantages of DBMS.
3. What is ER diagram? Explain it with example.
4. Explain about Entity clustering with an example.
5. Explain about Relational Data Model with an example.
6. What are the CODD rules? Explain.
7. Explain about Selection and Projection operations with example.
8. Define a View? Explain it with an example.
9. What is PL/SQL? Explain it with an example.
10. What is Exception Handling in PL/SQL? Explain it with an example.

Section B (5 × 10 = 50 Marks)

Answer **all** *questions.*

11. (a) Explain the Classification of DBMS.

(Or)

(b) Discuss about the Database Architecture with a neat diagram.

12. (a) Explain Multiple Inheritance.

(Or)

(b) Discuss about Constraints on Specialization and Generalization.

13. (a) Discuss about Relational Algebra operations with example.

(Or)

(b) Explain Domain Relational Calculus with example.

14. (a) Discuss about various Data Types of SQL with examples.

(Or)

(b) Explain Data Manipulation Language Command in SQL with example.

15. (a) What are the steps to Create a Cursor? Explain it with an example.

(Or)

(b) What is Database Trigger? Discuss about various Triggers with an example.

ANSWERS

Section A

Q.1 *Write about File based system.*

Refer to Q. 3, Question Bank, Page 3

Q.2 *What are the Advantages of DBMS.*

Refer to Q. 1, Question Bank, Page 1

Q.3 *What is ER diagram? Explain it with example.*

Refer to Q. 1, Question Bank, Page 27

Q.4 *Explain about Entity clustering with an example.*

Refer to Q. 9, Question Bank, Page 44

SRI KRISHNADEVARAYA UNIVERSITY

B.A./B.Sc. Degree Examination

Fifth Semester

OCTOBER 2018

Part II : Computer Science/Computer Applications

(Regular/Supplementary)

DATA BASE MANAGEMENT SYSTEMS

(Common for B.A. (CA)& B.Sc (CS))

Time : 3 Hours   Max : 75 Marks

Section $\boxed{A}$ (5 × 5 = 25 Marks)

Answer **five** *of the following questions.*

1. What are the drawbacks of file-based system ? Explain.
2. What are the advantages of DBMS ? Explain.
3. What is ER diagram ? Explain it with an example.
4. Explain about entity clustering with an example.
5. Explain about relational data model with an example.
6. What are the CODD rules ? Explain.
7. Explain about selection and projection operations with examples.
8. Define a view. Explailn it with an example.
9. What is PL/SQL ? Explain it with an example.
10. What is exception handling in PL/SQL ? Explain it with an example.

Section $\boxed{B}$ (5 × 10 = 50 Marks)

Answer **all** *questions.*

11. (a) Discuss about components and interfaces of DBMS.

(*Or*)

(b) Discuss about the database architecture with a neat diagram.

12. (a) Briefly explain about building blocks of an ER diagram with examples.

(Or),

(b) Discuss about constraints on specialization and generalization.

13. (a) Discuss about relational algebra operations with examples.

(Or)

(b) Discuss about tuple and domain relational calculus with examples.

14. (a) Discuss about various data types of SQL with examples.

(Or)

(b) Briefly explain about various types of command in SQL with examples.

15. (a) What are the steps to create a cursor ? Explain it with an example.

(Or)

(b) What is database trigger ? Discuss about various triggers with examples.

SRI KRISHNADEVARAYA UNIVERSITY

B.Sc. Degree Examination

Thid Year – Fifth Semester

DECEMBER 2017

Part II : Computer Science

DATA BASE MANAGEMENT SYSTEMS

Time : 3 Hours]   [Max : 75 Marks

Section A (5 × 5 = 25 Marks)

Answer five of the following questions.

1. Write about objectives of DBMS.

2. What is data model ? Write about components of data model.

3. What is a relationship and attribute inheritance ?

4. What is the difference between specialization and generalization ?

5. Write about key features of relational data model.

6. What is the concept of key ?

7. Write about advantages and disadvantages of SQL.

8. What is projection operation ?

9. Briefly explain about cursors in PL/SQL with examples.

10. What is package ? Write about advantages of package.

Section B (5 × 10 = 50 Marks)

Answer all questions.

Unit I

11. (a) Briefly explain about evaluation of DBMS.

(*Or*)

(b) What is file based ? Explain about drawbacks of file based system.

Unit II

12. (a) Write about the basic building blocks of entity relationship diagram.

(Or)

(b) What is connection trap ? Explain various types of connection traps.

Unit III

13. (a) Briefly explain about relational algebra operations with examples.

(Or)

(b) Explain about QBE.

Unit IV

14. (a) Explain about selection operation. With example.

(Or)

(b) What is a view ? Explain about views.

Unit V

15. (a) Explain about various data types using in PL/SQL.

(Or)

(b) Write about exception handlings.

ANSWERS

Section A

Q. 1 Write about objectives of DBMS.

Refer to Q. 1, Question Bank, Page 1

Q. 2 What is data model ? Write about components of data model.

Data models define how the logical structure of a database is modeled. Data Models are fundamental entities to introduce abstraction in a DBMS. Data models define how data is connected to each other and how they are processed and stored inside the system.