Dr.V.S.KRISHNA GOVT.DEGREE COLLEGE (AUTONOMOUS)
VISAKHAPATNAM
Course 4F: Database Management System
II Year B.Com Computer Applications
SYLLABUS FOR THE ACADEMIC YEAR 2020-21
SEMESTER – IV

Credit: 04 | **Max Marks: 100**
P.P.W: 06h | **External Marks: 75**
Internal Marks: 25

Unit- I : Overview of Database Management System
Introduction, Data and Information, Database, Database Management System, Objectives of DBMS, Evolution of Database Management System, Classification of Database Management System, DBA Role.

Unit-II : File-Based System
File Based System. Drawbacks of File-Based System, DBMS Approach, Advantage of DBMS, Data Models, Components of Database System, Database Architecture, DBMS Vendors and their products.

Unit-III : Entity-Relationship Model:
Introduction, The Building Blocks of an Entity-Relationship, Classification of Entity Set, Attribute Classification, Relationship Degree, Relationship Classification, Generalization and Specialization, Aggregation and Composition, CODD's Rules, Relational Data Model, Concept of Relational Integrity.

Unit-IV : Structured Query Language
Introduction, History of SQL Standards, Commands in SQL, Data types in SQL, Data Definition Language (DDL),Selection Operation Projection Operation, Aggregate Functions, Data Manipulation Language, Table Modification, Table Truncation, Imposition of Constraints, Set Operations.

Unit-V : PL/SQL:
Introduction, Structure of PL/SQL,PL/SQL Language Elements, Data Types, Control Structure, Steps to Create a PL/SQL Program, Iterative Control Cursors, Steps to Create a Cursor, Procedure, Functions, Packages, Exceptions Handling, Database Triggers, Types of triggers.

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BLUE PRINT FOR QUESTION PAPER SETTER

Course 4F: Database Management System
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SEMESTER – IV

Internal Marks for 25 Marks

Consisting of 2 unit tests carrying 20 marks each and 2 Assignments carrying 5 marks each or as per the instructions to be given by the CCE, AP in this regard.

Semester 75 Marks

Semester end Exam for 75 Marks consisting of 2 sections namely A, B.

Section A (5 X 10M = 50Marks)

5 Essay type questions (of either or choice) with **10** Marks each, totaling to **50** Marks

Section B (5 X 5M = 25Marks)

Consisting of any **5** questions out of **8**, with **5** Marks each, totaling to **25** Marks

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SEMESTER – IV

S.No. of Modules	Short Questions (5M)	Long Questions (10M)	Total No. of Questions
Unit-I	1	2	3
Unit-II	1	2	3
Unit-III	2	2	4
Unit-IV	2	2	4
Unit-V	2	2	4
Total Marks (with internal choice)	25	50	75

Dr.V.S.KRISHNA GOVT. DEGREE COLLEGE (A), VISAKHAPATNAM
Model Question Paper – 2020-21
Course 4F: Database Management System
II Year B.Com Computer Applications
SEMESTER – IV

Time: 3Hrs **Max. Marks: 75M**

Section –A

Answer ALL questions **5 X 10M=50M**

1. a) Write about the classification of Database Management System?

(Or)

b) Explain the role of DBA in Database system?

2. a) Define Data model and explain the classification of Data model?

(Or)

b) Briefly explain DBMS Architectures? With examples.

3.a) Explain about Entity Relationship(ER) model and its components?

(Or)

b) What is Normalization? Explain different Normal forms.

4.a) Explain various types of SQL Statements? With examples

(Or)

b) Explain about DDL commands? With examples.

5.a) Explain the block structure of PL/SQL? With example.

(Or)

b) Explain about the Control structures PL/SQL?

Section –B

Answer any FIVE questions **5 X 5M=25M**

6. Define the terms Data and Information with examples?

7. Explain the drawbacks of File Based System?

8. Explain various types of Attributes in ER Model?

9. What is Relationship? Explain different types of Relationships in DBMS?

10. Explain how to create table in SQL?

11. Explain various data types in available in SQL?

12. What are the basic Data types of PL/SQL?

13. What is a trigger? Explain

Question Bank– 2020-21
Semester – IV
Database Management System
2nd year B.COM (Computers Applications)

Unit: I

10 Marks Questions

1. Briefly explain the evolution of Data Base Management System?
2. Write about the classification of Database Management System?
3. What are the objectives of Database Management System? Explain in detail.
4. Explain the role of DBA in Database system?

5 Marks Questions

1. Define the terms Data and Information with examples?
2. What are the various types of Database?
3. Define the term Data, Database and Table?

Unit: II

10 Marks Questions

1. What is DBMS? Explain the advantages of DBMS?
2. Define Data model and explain the classification of Data model?
3. Briefly explain DBMS Architectures? With examples.
4. Explain about Database system Components?

5 Marks Questions

1. Explain the drawbacks of File Based System?
2. Explain about various DBMS vendors and their products?
3. What are the advantages of Database system approach?

Unit: III

10 Marks Questions

1. Explain about entity Relationship(ER) Model and its components?
2. What is Entity set? Explain Different types of Entity sets in DBMS.
3. What is Normalization? Explain different Normal forms.
4. Explain briefly about Generalization and Specialization? With examples.

5 Marks Questions

1. Explain various types of Attributes in ER Model?
2. What is Relationship? Explain different types of Relationships in DBMS?
3. What is Primary key? Explain.
4. Explain difference between Strong Entity set and Weak Entity set?

Unit: IV

10 Marks Questions

1. Explain various types of SQL Statements? With examples
2. Explain numeric, Logical and Relational operators of SQL?
3. Explain about DDL commands? With examples.
4. Explain about DML commands? With examples.

5 Marks Questions

1. Explain various types Data types available in SQL?
2. Explain how to create table in SQL?
3. Explain various types of SQL functions?
4. Explain how to delete table from a database?

Unit: V

10 Marks Questions

1. Explain the block structure of PL/SQL? With example.
2. Explain about the Control structures PL/SQL?
3. What is a cursor? Explain various types of cursors with examples.

5 Marks Questions

1. What is PL/SQL? Explain.
2. What are the basic Data types of PL/SQL?
3. Write the steps to create PL/SQL program?
4. What is a trigger? Explain