



K20U 1935

Reg. No. :

Name :

**III Semester B.C.A. Degree CBCSS (OBE) – Regular
Examination, November 2020
(2019 Admission Only)
GENERAL AWARENESS COURSE
3A13 BCA : Database Management System**

Time : 3 Hours

Max. Marks : 40

**PART – A
(Short Answer)**

One word to maximum one sentence. Answer all questions. (6×1=6)

1. What do you mean by domain of an attribute ?
2. Write the general syntax of Drop command.
3. What is Logical Data Independence ?
4. What is Tuple ?
5. Define schema of a database.
6. Why is relationship between entities important ?

**PART – B
(Short Essay)**

Answer any 6 questions : (6×2=12)

7. Draw a diagram to show the structure of a database.
8. Write a notes on views.
9. Explain the term Data Abstraction.
10. What do you mean by Relational calculus ?

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11. Give the importance of BCNF.
12. List any four advantages of DBMS.
13. Write a note on Foreign Key.
14. What do you mean by Data dictionary ?

PART – C
(Essay)

Answer **any 4** questions :

(4×3=12)

15. Explain basic steps involved in processing a query.
16. Explain the following terms :
 - i) Network Model
 - ii) Hierarchical Model.
17. What is join ? Explain different types of joins.
18. Explain the roles of data base administrator and the details of aggregate function queries.
19. Distinguish between DDL and DML.
20. What are the features of Database language ?

PART – D
(Long Essay)

Answer **any 2** questions :

(2×5=10)

21. Using diagrams and examples, explain E-R modeling with the help of student

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(2×5=10)

21. Using diagrams and examples, explain E-R modeling with the help of student database.
22. Explain the overall system structure of database management system.
23. Explain normalization. How is it different from functional dependencies ?
24. Explain all types of data models.



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Examination, November 2021
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General Awareness Course
3A13BCA : DATABASE MANAGEMENT SYSTEM**

Time : 3 Hours

Max. Marks : 40

PART – A

(Short Answer)

Answer **all** questions.

(6×1=6)

1. What are the various kinds of interactions catered by DBMS ?
2. What is a relation ?
3. What is an entity ?
4. Who proposed the relational model ?
5. Define database instance.
6. Define integrity constraints.

PART – B

(Short Essay)

Answer **any 6** questions.

(6×2=12)

7. List the pitfalls in Relational Database Design.
8. What is query optimization ?
9. Distinguish conceptual view and end user view.
10. Write the general syntax of delete command.
11. Discuss the role of DBA.
12. Why does SQL allow duplicate tuples in a table ?
13. What do you mean by INF ?
14. Write a note on Mapping Cardinality.

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PART – C

(Essay)

Answer **any 4** questions.

(4×3=12)

15. What is normalization ? What is its role in database design ?
16. What is a view in SQL ? Describe the procedure for renaming a column of a view .
17. What are the basic concepts of E-R model ?
18. Write short note on anomalies in a database.
19. Explain the use of ORDER BY clause in SQL.
20. Write short notes on authorisation mechanisms available in SQL.

PART – D

(Long Essay)

Answer **any 2** questions.

(2×5=10)

21. Draw and Explain the overall system structure of DBMS.
22. Draw an ER-diagram for a library database system. Identify the appropriate entities, attributes and relationships.
23. Explain the concept of lossless join decomposition with an example.
24. Discuss in detail the operators SELECT, PROJECT, UNION with suitable examples.