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Roll No.....

4th Sem, **Branch** : Comp. IT, CNC, CAD/CAM

Subject : Data Base Management System

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory. (10x1=10)

Q.1 Redundancy control is the advantage of

- a) File System b) Language
- c) Database System d) None of these

Q.2 A well organized collection of structured and interrelated data is known as

- a) Data File b) Database
- c) DBMS d) DBA

Q.3 DBA stands for

- a) Database Access
- b) Database administrator
- c) Database Authority
- d) None of the above

Q.4 Tables are used in

- a) Relational Model b) Network Model
- c) Physical Model d) None of the above

Q.5 Which one is not a mapping constraint

- a) One to one b) One to Two
- c) One to many d) Many to One

Q.6 An attribute can not be divided into subparts

- a) Simple attribute b) Single valued attribute
- c) Composite attribute d) None of these

Q.7 A row in a table is called

- a) Attribute b) Tuple
- c) Domain d) None of these

Q.8 The number of attributes in a relation is called

- a) Domain b) Cardinality
- c) Degree d) None

Q.9 The normalization minimizes

- a) Attributes b) Tuples
- c) Both A & B d) None

Q.10 Which is not a type of access control

- a) DAC b) MAC
- c) RAC d) RBAC

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

Q.11 In an Entity-Relationship Diagram “Ellipses” represents Attribute (True/False)

Q.12 A record in a relational database is called a tuple. (True/False)

Q.13 Define Data.

Q.14 Symbol of entity type in E-R Diagram.

Q.15 The processed data is called _____.

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- Q.16 A trigger can only be associated with _____.
 Q.17 Two types of functional dependencies are trivial and _____.
 Q.18 Attribute which can be divided into subparts is called _____.
 Q.19 Primary key is _____.
 Q.20 Data consistency is the disadvantage of DBMS.
 (True/False)

SECTION-C

Note : Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Write down advantages of database system.
 Q.22 Discuss DML? Write about four DML commands.
 Q.23 State properties of Boyce Codd Normal Form.
 Q.24 Differentiate between primary key any super key.
 Q.25 Define view? What are its advantages?
 Q.26 Discuss various data type in SQL. Explain.
 Q.27 Explain terms, Entity, attributes. Entity types and Entity sets with examples.
 Q.28 Explain the use of grant and revoke with example.
 Q.29 List the requirements of database security.
 Q.30 Explain creation of a table from another table using commands.
 Q.31 Write down the characteristics of triggers.
 Q.32 Discuss integrity constraints?
 Q.33 Define anomaly and its types.

- Q.34 Discuss Job and responsibilities of DBA.
 Q.35 Write down the advantages of stored procedures.

SECTION-D

- Note :** Long Answer type question. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Explain normalization. Why we need it. Explain various normal forms.
 Q.37 Discuss various components of SQL? Discuss about various relational and Boolean operators.
 Q.38 Define a trigger. Explain various types of triggers with suitable examples.