

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 _____.

- 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.

(3)

180843/170843/
120843/30843

- 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.

(4)

180843/170843/
120843/30843