Date: 04 Dec 2024

TEST#

LGS GROUP OF COLLEGES

MT3

MONTHLY TEST # 3 – COMPUTER / XII [ICS / FA]

TOPICS [Chap# 3 & 4]

Paper Code: 1234	**Name:** ………………………………………..	Roll No.				
Max. Marks: 35	**Objective + Subjective**	**Time: 55 mint**				

SECTION-I   OBJECTIVE TYPE

Note: Four possible answer A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink in the answer-book. Cutting or filling two or more circles will result in zero mark in that question.   **(01 x 11 = 11)**

1   A data model is
A   A logical representation of the structure of the data base
B   Shown as an entity relationship diagram
C   Transformed in to tables and relationships
D   All of these

2   Which of the following is used to describe the characteristics of an object
A   Attribute   B   Relationship
C   Cardinality   D   Modality

3   Which of the following is used to associate entities with one another
A   Entity   B   Attribute
C   Identifier   D   Relationship

4   Customers, card and parts are examples of
A   Entities   B   Attributes
C   Cardinals   D   Relationships

5   In an E – R diagram a rectangle represents
A   Entity   B   Attribute
C   Relationship   D   None of These

6   Which of the following is NOT included in the definition of an entity
A   Person   B   Object
C   Concept   D   Action

7   The entity integrity rule states that
A   No Primary Key Attribute Can Be Null
B   Each Entity Must Have A Primary Key
C   Primary Key Must Have Only One Attribute
D   None of These

8   A rule that states that each foreign key value must match a primary key value of the other relation is called
A   Referential Integrity Constraint   B   Key Match Rule
C   Entity Key Group Rule   D   Foreign / Primary Match Rule

9   Two or more attributes with different names but same meaning create a problem
A   Homonyms   B   Aliases
C   Synonym   D   Alternate Attribute

10   A constraint between two attributes is called
A   Functional Relation   B   Attribute Dependency
C   Functional Dependency   D   Functional Relation Constraints

11   The attribute on the left side of the arrow in a functional dependency is called
A   Candidate Key   B   Determinant
C   Foreign Key   D   Primary Key

Section-II   SUBJECTIVE TYPE

Part - I

Q2.   **Write short answers of any Eight from the following questions.**   **(08 x 02 = 16)**

     i.   Write a short note on Entity Relationship Diagram.

     ii.   What is meant by file organization?

     iii.   Define integrity constraints.

     iv.   What are indexes?

     v.   What are different criteria for selecting a file organization?

     vi.   Describe the implementation phase of data base design process.

     vii.   What are the data base anomalies?

     viii.   What is meant by functions dependency?

     ix.   What is meant by partial dependency?

     x.   What do you know about mutual exclusiveness of data?

     xi.   What is a repeating group?

PART II

Note: **Write long answers of any ONE from the following questions.**   **(08 x 01 = 08)**

Q.3.   **Define Normalization. Discuss its main phases in detail. Also explain graphical representation.**
         (2, 6)

Q.4.   **Define data base. Briefly explain the data base design process.**   **(2, 6)**