

# Computer Science - ICS Part 2 Computer Science Chapter 3 Short Questions Preparation

#### Q1. What is the importance of Project Planning?

**Ans 1:** In project planning a proper schedule is laid down to accomplish the activities of a project. All the cost factors are taken into consideration i.e the salaries of team members, their logistics involved, other expenses such as marriage gifts, insurance etc.

#### Q2. Define term analysis.

**Ans 1:** A systematic examination and evaluation of data or information by breaking it into its components parts to uncover their interrelationships is called analysis, The following are the types of analysis.

- 1. Data Analysis
- 2. Requirements Analysis
- 3. Project Analysis

## Q3. Name of Any Two Types of Relationships.

**Ans 1:** There are two types of relationships.

- 1) One to One
- 2) One to Many

#### Q4. Define Attribute. Give an example.

**Ans 1:** Attributes defines the objects, describe their characteristics and in some cases, make references to other object i.e attributes for a TEACHER could be: Teacher, Name, Gender, Last degree, Appointment Data, Pay Scale, Nationality, Telephone No.etc.

#### Q5. Define E- Diagram.

**Ans 1:** 1) By connecting all the Data Objects along with their Relationship in the above manner, an ERD (Entity Relationship Diagram) is constructed .

2) Data modeling and the entity- Relationship Diagram provide the Analyst or Database administrator with a concise of a Data Processing Application or constructing a Physical Database.

#### Q6. What is meant by Data modeling?

**Ans 1:** Data modeling is the process of identifying the data objects and the relationship between them. Ingredients of Data Modeling:

- 1. Entities/Object
- 2. Attributes
- 3. Relationship
- 4. Cardinaality

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### Q7. Differentiate between Cardinality and Modality.

**Ans 1:** Cardinality: The number of record in a relation is called the cardinality of relation.

- a) Whether some occurrence (s) of object -1 are related to some occurrence (s) of object -2
- b) It is expressed as one or many e.g.,
- c) A husband can have only one wife and
- d) A Father can have many children.

Modality: Modality defines whether the participation of an entity in a relationship is mandatory or optional.

a) Optional

......Represented

b) Mandatory ..... Represented by 1

#### Q8. State the purpose of physical database design.

**Ans 1:** Physical database design is the last stage of the database design process. The major objective of physical database design is to implement the database as a set of stored records, files, indexes, and other data structures that will provide adequate performance and ensure database integrity, security and recoverability.

#### Q9. State the Purpose of database design process.

**Ans 1:** The major objective of database design process is to map the conceptual data model to an implementation model that is acceptable to all users throughout the organizations. In today's is complete and up-to-date and they expect to be able to access this information quickly and easily.

#### Q10. Define Cardinality.

Ans 1: The number of record in a relation is called the cardinality of relation.

- 1. Whether some occurrence (s) of object -1 are related to some occurrence (s) of object -2
- 2. It is expressed as one or many e.g.
- a) A husband can have only one wife and
- b) A Father can have many children .
- 3. The relationship can be
- a) One to One b) One to many
- c) Many to many d) Recursive e) None