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

Q1. Define Relationship.

Ans 1:   The relationship indicates how the entities.objects are connected or related each other.

- All the relationship defines the relevant connection between both objects.
- All the relationship are bi-directional.

Q2. 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

Q3. Write the purpose of feasibility study.

Ans 1:   The purpose of feasibility study is called preliminary investigation of the required database,It involves the area of identification and selection i.e which area or aspect is to be selected to start with.After the project is selected,it is allocated a specific fund and a proper planning is chalked out of its practical implementation.

Q4. 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.

Q5. What is entity in an ERD?

Ans 1:   A data is entity or object is anything that is participating in the system.It is always properly identifiable i.e a TEACHER,a STUDENT,an AEROPLANE.

Q6. 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 .

Q7. What is difference between Relation and Relationship.

Ans 1:   Relation:A two dimensional array or table of data containing descriptive information about an entity.The entity must have a unique identifier,which is composed of a combination of one or more attributes and each attributes must have one and only one value.

Ans 2:   Relationship:The relationship indicated how the entities/Objects are connected or related to each other,

- All the relationship defines the relevant connections between both objects.
- All the relationship are bi-directional.

Q8. 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.

Q9. 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.

Q10. 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.