

## INSTITUTE OF INFORMATION TECHNOLOGY JAHANGIRNAGAR UNIVERSITY

**Assignment** : 01

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**Course Tittle** : Database Management Systems

**Course Code** : ICT - 2203

## **Submitted To**

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## Answer to the question no-1

A database is an organized collection of structured information or data typically Stoned electronically computer system. A dutabase is usually controlled by a database management system. Database contains information nelevent to am enterprise. Dadabase system are designed to manage large bodies of information and Providing machanisms for the manipulation or information. In addition the database system must ensure the satety of the information Stoned despite System. crashes on aftemps at unauthorized acress. It data are to be Shared among several users the system must avoid Possible anomalous nesults.

## Answer to the question no -2

a. Entity: An entity is an object that exists. Entity are such thing about which we stone data. In database entity can be a single thing Penson, Place on object. In dutabase only thouse things about which data will be Captured or stored is consideres an entity. It we are not going to capture data about something there is no point in cheating an entity in database. to Motion ell.

example: Student

ID	Name	7.
1001	Shakil	1 -> entity
11002	Rahim	-> entity

A b. Arthribute: An attribute defines the information about the entity that needs to be stoned. It the is student attribute could include id, name, Session. An entity will have zeno or more attributes and each of those attributes apply only to that entity the is with more in

Example: Student

	TD	Name	-> Arttr	ibute
1	1001	shakil		
:	1002	Rahim	ridat	57.1

3 by Ademinder 1 1 mg

c. Schema: The over all design of the database is called schema. A database schema connesponds to the vaniable declarations in a Program. Each vaniable has a fanticular vaniable at a given instanct. When we create a database named student here we have to define attributes type and all these design on blueprint is called Schema.

de Instance: The Collection of information

Stoned in database at a Particular moment

of time is called instanance of the database.

It can change with time It is a dynamic

concept. It can change over time as

information is instented and detected.

Example

Student

1-1-A
Name
Shakil
Rahim

instance is 2

Student

M ID I	Name
1001	Shakil
1002	Rahim
1003	Kanim

restable out to nypicob Un como un instance is 3

e. Record: A necond in a database is an Object that can contain one or more values. A necond is simply a set of data Storned in a table.

Example: student

1	10	I Name	7
ľ	1001	Shakil	- Record 1
ľ	1002	Rahim	-> Record 2