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S.E. (Computer Science & Engineering (Data Science)) (Insem.)

DATABASE MANAGEMENT SYSTEM (2019 Pattern) (Semester - IV) (210655)

Time: I Hour! [Max. Marks: 30 Instructions to the candidates : 1) Answer Q.1 or Q.2, Q.3 or Q.4. 2) Neat diagrams must be drawn wherever necessary. 3) Figures to the right side indicate full marks. Assume Suitable data, if necessary, (21) a) Define Database. Explain purpose of Database. b) What are the limitations in Conventional File System? e) Explain DCL and TCL with example. Q2) a) Explain View of data and its level of abstraction. b) Explain Object-Oriented Database. c) Define the following i) Primary Key ii) Foreign Key Q3) a) Draw the neat diagram of Database System Structure and explain its components in detail b) Construct an ER Diagram for a database for the National Hockey League

the NHL has many teams,

each team has a name, a city, a coach, a captain, and a set of players,

each player belongs to only one team, each player has a name, a position (such as left wing or goalie), a skill level, and a set of injury records.

a team captain is also a player,

a game is played between two teams (referred to as host team and guest team) and has a date (such as May 11th, 1999) and a score (such as 4 to 2).

P.T.O.

Q4) a) What is Constraint? Explain the concept of Referential and Entity Integrity. constraint with example.

b) Draw an ER diagram for the following application from the ABC Company

Employees work for many projects and each project has many employees

Each employee bas an unique Emp no

Each employee has a name and name consists of first name, middle name and last name

-Pach project has an unique number and name

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