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CS-06

BACHELOR OF COMPUTER APPLICATION

(BCA) (Pre-Revised)

Term-End Examination, 2019

CS-06: DATABASE MANAGEMENT SYSTEMS

Time: Three Hours]

[Maximum Marks:75

Note: Question No. 1 is compulsory. Attempt any three questions from the rest.

(a) Consider the following Relation Schema: [10]
 SUPPLIER (S#, SNAME, STATUS, CITY)
 PARTS (P#, PNAME, COLOR, WEIGHT, CITY)
 SP (S#, P#, QUANTITY)

Attempt the following queries in SQL-

- (i) Find name of supplier for city = 'Delhi'
- (ii) Find suppliers whose name start with 'AB'

			supplier named 'Mohan'.	
		(iv)	Delete records in supplier table whe status is 40.	nose
		(v)	Find the name of supplier who supply coloured part.	'red'
(b) Define the following:		the following:	[8]	
		(i)	Primary Key	
		(ii)	Foreign Key	
		(iii)	Super Key	
		(iv)	Candidate Key	
	(c)	What a	are the responsibilities of a DBA?	[4]
	(d)	Explain three level architecture of Database		
		Systen	n. 	[4]
۴	(e)	Explain Specialization or Generalization feature		
		of ER	diagram with an example.	[4]
2.	(a)	What	is Normalization ? Why is it needs	ed ?
CS-06		Explair	n 3NF with an example.	[7]

Find the name of parts supplied by

(iii)

(b)	What are the drawbacks of File Processing System? Explain. [4]
(c)	Explain Inverted File Organization with an example. [4]
(a)	What are the advantages and disadvantages of Data Replication in Distributed Databases ? [5]
(b)	What is Data Independence? Explain the difference between Physical and Logical data independence with and example. [6]
(c)	What are Integrity Constraints? Explain any two types of integrity constraints which can be imposed on Relational Databases. [4]
(a)	Differentiate between Relational Database

- Management System and Object Oriented

 Database Management System [6]
 - (b) What is Client-Server Comforting? What are its advantages? [5]
 - (c) What is the difference between Knowledge Based System and Database System? [4]

3.

4.

- 5. (a) Explain briefly advantages and disadvantages of Distributed DBMS. [7]
 - (b) What is Functional Dependency (FD)? Find the valid FDs in the following relation: [8]

А	В	С
<u> </u>	1	. 2
<u> </u>	1	3
J	1	4
J	1	3
К	2	5
L	4	7

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