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B.C.A. (Pt. - II)

Data. Mana. Sys.

10+2

204/234

(a)

(b)

B.C.A. (Part - II) EXAMINATION, 2021

(Faculty of Science)

(Three - Year Scheme of 10+2+3 Pattern)

DATABASE MANAGEMENT SYSTEM

Time Allowed : Three Hours Maximum Marks : 100

No supplementary answer-book will be given to any candidate. Hence the candidates should write their answers precisely in the main answer-book only.

All the parts of one question should be answered at one place in the answer-book. One complete question should not be answered at different places in the answer-book.

Write your roll number on question paper before start writing answers of questions.

Question paper consists of three parts. All three parts are compulsory.

Explain the advantages and disadvantages of DBMS.

What is mean by data independance?

- PART A: (Very short answer) consists of 10 questions of two marks each. Maximum limit for each question is upto 40 words.
- PART B: (Short answer) consists of 5 questions of four marks each. Maximum limit for each question is upto 80 words.
- PART C: (Long answer) consists of 5 questions of twelve marks each with an internal choice.

Define database. 10x2=20 What is mean by data in Pependance? (b) (c) Define attributes and lotities. (d) What is mean by a cregation? What is mean by data recovery? Define transactions. What is SQL? Define views. Define distributed database. What is mean by object database? PART - B 2. Discuss the Database system v/s File system. 5x4=20A61 Discuss the various types of keys. (c) Explain Boyce Codd Normal Form with examples. (d) Discuss the Aggregate functions with examples. What is mean by concurrency control? Discuss the concurrency control in distributed databases. (e) PART - C Discuss the architecture of DBMS. (a) 6+6 Discuss the role of database administrator.

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4.	(a)	Discuss the fundamental operations of relational algebra.	8+4
	(b)	Discuss the generalization and aggregation.	
		OR	4+8
		e short notes on :	4.0
	(a)	Mapping constraints	
	(b)	E-R Model	
شبط	Disc	uss the functional dependencies, access control, backup, recovery and maintenance. OR	12
	Disc	uss the various Normal Forms with examples.	12
			5+7
6	(et)	Explain SQL Data types.	5+1
	(b)	Discuss the insert, update and delete operations with examples.	
		OR	4+4+4
		te short notes on :	41414
	(a)	Characteristics of SQL	
	(b)	Types of SQL commands	
	(c)	Join, Union and Intersection in SQL	
7.	(-)	Explain object oriented databases.	6+6
1.	(a) (b)	Discuss Distributed Query Processing.	
	(0)	OR	
	Writ	te short notes on :	6+3+3
	(a)	Object Oriented data model	
	(b)	Object Relational databases	
	(c)	Distributed Transactions	
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