Roll No.

97671

B.C.A. 3rd Semester (New) Examination November, 2014

INTRODUC**TION TO DATA BASE** SYSTEM

Paper: BCA-203

Time: 3 hours

Max. Marks: 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complete in this regard will be entertained after the examination.

Note: Question No. 1 is compulsory. Attempt Four more questions selecting One questions from each unit.

- 1. Answer the following questions briefly:
 - (a) Discuss two advantages of Physical Data Independence.
 - (b) List two major advantages of conceptual modeling.
 - (c) Explain BCNF with an example.

(d) Define data models.	5
(e) Explain uses of abstraction	on.
(f) Define query optimization	L .
(g) Write the uses of entity so	ets.
(h) Explain data integration.	8×2=16
UNIT – I	. 3m
(a) What is database? How used? Discuss with exam	
(b) Discuss limitations of freezamples.	ile system with
Explain the following briefl examples:	y with suitable
(i) DBMS functions	4
(ii) DBMS languages	4
(iii) Database administrator	4
(iv) Differences between information	data and 4

3.

97671-4850-(P-4)(Q-9)(14)

UNIT - II

4.	(a)	(a) What is client server architecture? How		
		is it useful and used in DBMS? Exp	lain	
		with an example.	8	
	(b)	Discuss architecture of DBMS with	an	
		example.	8	
	٠	a so se	45	
5.	De	scribe the following with examples :		
	ē.			
	(i)	Schemas and its advantages	4	
	•••			
	(ii)	Physical data models	4	
		Mark H Mark At H		
	(iii)	Data independence	4	
	•	* * *		
	(iv)	Mappings and instances	4	
19	3	0 8		
		UNIT – III		
367			2	
б.	(a)	What is Network data model? How	is it	
\$32450°	4-7	used and useful ? Explain v		
		examples.	8	
	į.	Unampiou.	J	
***	(h)	Diaguas Database valations and t	heir	
	(0)	Discuss Database relations and t	4	
1707	74 401	properties with examples. 50-(P-4)(Q-9)(14) (3) [Turn (8 2ver	
3/0/	(-46	50-(F-4)(U-3)(14) (3) [10111 (O A CI	

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7.	Explain the following with examples:		8
	(i)	Differentiate between E-R model and diagram.	ER 8
. 5	(ii)	Advantages of relational model.	8
**	67	UNIT - IV	뾩
8.	(a)	What is query processing? How is used and useful? Discuss its strate with examples.	s it egies 8
	(b)	Explain differences between 4 NF 5NF with an example.	and 8
9.	Ex	plain the following briefly with example	es:
e ^E	(i)	Database concurrency and applications	its 4
upis"	(ii)	Data types in SQL	4
	(iii)	Functional dependencies	4

(iv) Advantages of relational algebra