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# B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, MARCH 2014

## Fourth Semester

Vocational Course-Computer Science

## DATA BASE MANAGEMENT SYSTEMS

· [For B.Sc. Mathematics (Model II)]

Time	. mil.	Carlotte.	TI	-

Maximum Weight: 25

ne :	THE	se nour	8	Part A	Maximum weight; 25			
					s in this Part. ions, the weight is 1.			
I.	1	Data a	about data is called :					
		,(a)	Schema.	(b)	DBA.			
		(c)	Metadata.	(d)	Table.			
	2	The co	ollection of information stored in database at a particular moment is called :					
		(a)	Schema.	(b)	DBA.			
		(c)	Instance.	(d)	Meta data.			
	3	For ea	ach attributes, the set of p	permitted va	lues are called :			
		(a)	Domain.	(b)	Range.			
		(c)	Data.	(d)	File.			
	4	Which	of the following compon	ent in E-R d	iagram represents desired attributes?			
		(a)	Rectangle.	(b)	Dashed ellipses.			
		- (e)	Double lines.	(d)	Diamonds.			
II.	5	A valu	ue which does not exist is	called a —				
		(a)	Null.	(b)	Zero.			
		(c)	Integers.	(d)	Characters.			
	6	A row	v is also known as —					
		(a)	Entity.	(b)	Field.			
		(c)	Relation.	(d)	Table.			
			2 10 2					

	7	Which	SQL keyword must be used to	remov	ve duplicate rows from the result relation?		
		(a)	DELETE.	(b)	DISTINCT.		
		(e)	NOT EXISTS.	(d)	UNIQUE.		
	8	Four I	OML commands are ———.				
		(a) CREATE, UPDATE, DELETE, SELECT.					
		(b)	INSERT, UPDATE, DROP, SE	LEC	r.		
		(c)	CREATE, ALTER, DELETE, S	ELE	CT.		
		(d)	INSERT, UPDATE, DELETE,	SELE	CT.		
Ш.	9	The slowest storage media such as magnetic tape is referred as ———.					
		(a)	Primary storage.	(b)	Secondary storage.		
		(c)	Tertiary storage.	(d)	On line storage.		
	10	The co	omponents of a composite attrib	ute ca	an be accessed by using ——— notation.		
		(a)	Name.	(b)	Single bracket.		
		(c)	Dot.	(d)	Semi colomn.		
	11	11 Magnetic disk is referred as ———.					
		(a)	Primary storage.	(b)	On line storage.		
		(c)	Off line storage.	(d)	Tertiary storage.		
	12	An att	tribute or set of attributes used	to loo	k up records in a file is called a ———.		
		(a)	Primary key.	(b)	Candidate key.		
		(c)	Foreign key.	(d)	Search key.		
IV.	13	Bus is	i a ———.				
		(a)	Inter connection network.	(b)	Local-Area network.		
		(c)	Wide-Area network.	(d)	Storage Area network.		
	14	Clust	ers are also knows as ———.				
		(a)	Shared memory.	(b)	Shared disk,		
		(c)	Shared nothing.	(d)	Hierarchical.		
	15	Searc	h algorithms that use an index	are re	eferred to as ———.		
		(a)	Primary index.	(b)	Secondary index.		
		(c)	Index scans.	(d)	Clustering index.		

- 16 Which of following is an external sort?
  - (a) Quick sort.

(b) Selection sort.

(c) Merge sort.

(d) Bubble sort.

 $(4 \times 1 = 4)$ 

#### Part B

Answer any five questions.

Each question carries a weight of 1.

- 17 What you mean by data manipulation language?
- 18 Define entity sets.
- 19 What is the difference between Primary key and Secondary key?
- 20 What is extension and intension?
- 21 Define skew.
- 22 Define multilevel indices.
- 23 How does a β-tree differ from a β\*tree?
- 24 Define merge sort.

 $(5 \times 1 = 5)$ 

### Part C

Answer any four questions. Each question carries a weight of 2.

- 25 Write the functions of a database administration.
- 26 Write a note on mapping cardinality.
- 27 What are the commands used for modifying the data base.
- 28 What are aspects need to be addressed when adding persistence support to C++?
- 29 Explain how a persistant pointer is implemented.
- 30 Explain transaction-server process structure with a neat diagram.

 $(4 \times 2 = 8)$ 

#### Part D

Answer any two questions.

Each question carries a weight of 4.

- 31 Discuss about Entity-Relationship design issues.
- 32 Write a note on Raid level 2 and Raid level 5.
- 33 Explain centralized and client-served architectures with neat diagram.

 $(2 \times 4 = 8)$