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THE UNIVERSITY OF THE WEST INDIES Semester I ⊠ Semester II □ Supplemental/Summer School □ Examinations of December ☑ /April/May ☐ /July ☐ 2013 Originating Campus: Cave Hill

Mona

St. Augustine Mode: On Campus \boxtimes By Distance \square Course Code and Title: LIBS3502 - TECHNOLOGY IN LIBRARIES: DATABASE **DESIGN AND MANAGEMENT** Date: Wednesday, December 4, 2013 Time: 4:00 - 6:00 p.m. Duration: 2 Hours Paper No: Materials required: Normal **Answer booklet:** Special □ **Not required ⊠ Calculator: Programmable** □ Non Programmable \square (where applicable) **Multiple Choice answer sheets:** numerical \square alphabetical \square 1-20 \square 1-100 \square Auxiliary/Other material(s) – Please specify: Candidates are permitted to bring the following items to their desks: <u>Instructions to Candidates: This paper has 8 pages & 22 questions.</u> Candidates are reminded that the examiners shall take into account the proper use of the English Language in determining the mark for each response. ANSWER ALL QUESTIONS IN THE SPACE PROVIDED. The University of the West Indies Course Code 20..../..../... DO NOT WRITE OR TYPE ON THE BACK OF THIS SHEET: USE ONE SIDE ONLY INSTRUCTIONS: Each page must be signed by the First and Second Examiners, and where applicable the University and External Examiners. Completed forms should be handed to the Senior/Assistant Registrar (Examinations). Where applicable, the EXTERNAL EXAMINER is required to sign the question paper and return it with comments, if any, (on a separate sheet), to the Senior/Assistant Registrar (Examinations).

University Examiner (where applicable)

External Examiner (where applicable)

Date: 20..../..../

First Examiner

Second Examiner

Date: 20..../..../

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1.	Define the term "relational database" information. (2 marks)	and explain how	it organizes and stores	
2.	List and explain the FIVE (5) phases	s in the system de	velopment lifecycle. (5 marks)	
3.	Explain the term "database model".	(1 marks)		
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4.	Name and explain the THREE (3) main t	ypes of relationships that exist between tables
	in a relational database and indicate the m	ost popular type. (3 marks)
5.	Explain the term Database Management S (3 marks)	system and name FOUR (4) of its functions.
	(5 marks)	
6.	Explain the term "counter measures" and	name TWO (2) categories. (2 marks)
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7.	Name FOUR (4) sources of problems that could a	affect a system. (2 marks)
8.	Give TWO (2) advantage of SQL. (1 mark)	
9.	Name the database engine used by Microsoft Acce	ss. (1 mark)
10.	What are the standard SQL commands that can be that needs to be done with a database"? (2 marks)	used to "accomplish almost everything
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11.	Explain using examples the use of a Con (1 mark)	catenation Operator in Microsoft access.
12.	Name and explain the THREE (3) main	n components of SQL. (3 marks)
13.	Name FOUR (4) popular types of SQL (database software. (2 marks)
14.	Give TWO (2) reasons why documentat	ion is needed for a system. (2 marks)
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15.	List any FOUR (4) types of so	ftware needed for digital librar	ry creation. (2 marks)
16.	Distinguish between the THR	EE (3) main types networks. (3)	3 marks)
17.	Explain THREE (3) limitation	as of expert systems. (3 marks))
18.	Name and explain the THRE	E (3) categories of computer a	architecture. (3 marks)
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19.	Explain any FOUR (4) functions of a N	
20.	Give THREE (3) ways that telecommu processes. (3 marks)	nication technology helps to improve business
21a.	Explain the term "Institutional Repositor	ry." (1 mark)
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21b. Give ONE (1) example and state ONE (1) di	sadvangage. (2 marks)
22. What is the purpose of network client software	a? (1 mark)
22. What is the purpose of network chefit software	e: (1 mark)
END OF EXAMI	NATION
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