DIPLOMA - COMPUTER SCIENCE AND ENGINEERING (BTCSVI)

0095

Term-End Examination

December, 2012

BICS-032: SYSTEM ANALYSIS AND DESIGN

Time: 2 hours Maximum Marks: 70

Note: All questions are to be answered in English language only. Five questions are to be answered and Question one is compulsory.

- Compulsory question. Each sub part carry 2
 marks.

 2x7=14
 - (a) Which of the following used in both high and low level analysis?
 - (i) DFD
 - (ii) Data dictionary
 - (iii) ER diagram
 - (iv) Structured Diagram.
 - (b) Every foreign key value must match an existing primary key value is called:
 - (i) Referential Integrity
 - (ii) Unique integrity
 - (iii) Primary key integrity
 - (iv) Relational integrity

(c)	The percentage of actual records processed	
	in a single run is called as :	
	(i) File volatility	
	(ii) File activity	
	(iii) File regularity	
	(iv) File capability	•
(d)	The collection of related data items	
	mentioned in which of the following item?	
	(i) File	
	(ii) Record	
	(iii) Document	
	(iv) Set	
(e)	Partitioning is opposite to cluster.	
	(True /False)	
(f)	Indexing provide fast access to the value in	
	a row or a concatenation of columns.	
	(True/False)	
(g)	File volatility addresses the properties of	
	record changes. (True/False)	
(a)	What are the elements of a system? Mention	4+3
	few characteristics of a system.	
(b)	Explain in detail about the system	7
	Development Life Cycle.	
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(a)	Discuss the succeeding skills of an Expert	7
	System Analyst.	
(b)	Briefly explain Radical Method. What are	
	the steps followed for determining system	
	requirements? 3.5+	3.5

2.

3.

(b) Explain Software Application Testing in 7 detail. 6. What is Documentation? How do you (a) 3+4perform Training and support of staffs in System Design? What is RAD ? Briefly explain the 2+5 (b) approaches to RAD. 7. (a) Explain Unified Modeling Language in 7 detail. Write short notes on Dynamic Modeling. (b) What are the advantages and disadvantages of RAD? 3.5+3.5 Write short note on any four: 8. 3.5x4=14(a) OOAD (b) OOD (c) System Maintenance (d) Installation (e) Object Model **Process Modeling** (f)

3

What is process modeling? Write short

What is Data Modeling? Explain in detail 2+5

Illustrate with an example of DFD.

3.5 + 3.5

7

notes on Logic Modeling.

about ER - Modeling.

4.

5.

(a)

(b)

(a)

BICS-032