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SARDAR PATEL UNIVERSITY
External Examination
B. Sc. – Computer Science – Fifth Semester
US05CCSC05: System Analysis and Design
22nd November, Friday, 2013

Time: 10:30 am to 01:30 pm

Total Marks: 70

Q-1 Select an appropriate option.

10

1. The inter connection & interactions between the subsystem are termed as _____.
(a) boundary (b) subsystem (c) interface (d) blackbox
2. The example of conceptual system is _____.
(a) philosophy (b) solar (c) water (d) computer
3. The inputs and outputs of subsystem are known but not the actual transformation from one to other is called _____.
(a) boundary (b) subsystem (c) interface (d) blackbox
4. The first step in SSADM is _____.
(a) system survey (b) structured design
(c) maintenance (d) structured analysis
5. A _____ is an organized step by step tracing through of a design by a group of people.
(a) Structure Walk Through (b) Structured Design
(c) Structure walking (d) System Analysis
6. _____ involves the purchase of hardware, packaged software and software services.
(a) conversion (b) testing (c) System Acquisition (d) programming
7. Arranging the data into some desired sequence is known as _____.
(a) Data Recording (b) Verification (c) Sorting (d) Data Transmission
8. _____ is useful for gathering numerical data.
(a) Interviewing (b) Questionnaires (c) Record inspection (d) Data input
9. _____ Tool automate the preparation of computer software
(a) Diagramming Tools (b) Interface Generators
(c) Code Generator (d) Management Tool
10. _____ DFDs are more realistic and implementation oriented.
(a) Physical (b) Logical (c) Physiological (d) None

Q-2	Answer the following questions. (Any TEN)	20
	1. Draw the model of System.	
	2. List the steps of SDLC.	
	3. Differentiate between open system and closed system.	
	4. List the steps in SSADM.	
	5. Explain the importance of maintenance in SSADM.	
	6. What do you mean by Structured Walk Through? Explain.	
	7. What is Data Capture?	
	8. What is Data Transmission?	
	9. When Questionnaires are useful?	
	10. What do you mean by CASE Tools?	
	11. Explain Code Generator	
	12. Draw a context diagram for the Railway Reservation System.	
Q-3		
(a)	Discuss in brief the major system concepts.	5
(b)	Write short note on followings:	5
	(i) Problem identification	
	(ii) Feasibility Study and Cost Benefit Analysis	
	OR	
Q-3		
(a)	List and explain the types of the systems.	5
(b)	Who is System Analyst? Also explain the role of a system analyst.	5
Q-4		
(a)	List and explain the limitations of SDLC.	5
(b)	Explain Constructing the System and Implementation Stage in SSADM.	5
	OR	
Q-4		
(a)	Explain Structured Design in brief.	5
(b)	What are the advantages of SSADM? Explain.	5
Q-5		
(a)	Explain basic steps in Data capture.	5
(b)	Why fact gathering techniques are used? Write brief note on Observation technique.	5
	OR	
Q-5		
(a)	Explain design principles of output.	5
(b)	Write short note on interview.	5
Q-6	Define DFD. List the symbols used in DFDs and write the rules to be followed in DFD construction. Also differentiate between PDFD and LDFD.	10
	OR	
Q-6	Discuss in brief the Benefits and Limitations of CASE Tools.	10

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