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Sardar Patel University **External Examination**

B. Sc. 5th Semester (Information & Technology)
US05CINT05: System Analysis Design & Software Engineering
Wednesday 20th November - 2019

Time	: 10:00 am to 01:00 pm	Total Marks :	70		
).1	Select the correct answer for th	e following.	10		
1.		t makes possible the transformation			
	of input to output.	·			
	(a) Input (b) Process	(c) Output (d) Goal			
2.	A subsystem at the lowest level is	often not defined as to the process is			
	termed as	(a) Black have (d) Interface			
	(a) Boundary (b) Subsystem	(c) Black box (d) Interface			
3.	system is an example of	siness Organization (d) Education			
4.	The third step of SDLC is				
→.	(a) Problem Identification	(b) System Requirement Analysis			
	(a) Problem Identification (c) Implementation	(d) Evaluation of System			
5.	means reports have r	nany errors.			
	(a) Problem of Accuracy	(b) Problem of Validity			
	(c) Problem of Timeliness	(d) Problem of Capacity			
6.	Which of the following is not a com	ponent of system implementation?			
_	(a) Programming (b) Testing	it of the Configuring Hardware Study.			
7.	(a) Physical Requirement	(b) Hardware			
	(c) Packed Design	(d) Test Plan			
8.	documentation describ	e the overall system design.			
	(a) Design (b) Program	(c) Training (d) User Interface			
9.	model reduce the first t	wo limitations of Waterfall model.			
	(a) Spiral (b) Waterfall	(c) Prototype (d) None of these			
10.	part requires	s major efforts. (c) Design (d) Maintenance			
	(a) Testing (b) Coding				
Q.2	Answer in short. (Attempt an	y TEN)	20		
1.	List the basic components of education	ation system.			
2.	Draw the general model of a system.				
3	Define :- Boundary and Environment.				
4.	List stages of system design.				
5.	Write difference between open and close system.				

	6.	List methods of feasibility study.	
	7.	List all methodology of SSADM.	
	8.	Explain hardware study.	
	9.	Explain system survey.	
	10.	Explain error distribution.	
	11.	List down characteristics of software process.	
•	12.	Explain advantages of spiral model.	
	Q.3	[a] What is System? Explain Characteristics of System.	5
		[b] Who is system analyst? Explain role of system analyst.	5
		OR	
	Q.3	[a] Explain General Model of System with example.	5
		[b] Define Subsystem. Explain subsystem and interface of computer system.	5
•	Q.4	[a] Explain evaluation of the system.	5
		[b] Explain Problem Identification & Feasibility study.	5
		OR	
	Q.4	[a] Explain system design specification and programming.	5
		[b] Write difference between System Analysis and System Design.	5
	Q.5	[a] Explain structure analysis of SSADM.	5
		[b] Write short note on documentation.	5
		OR	
	Q.5	[a] Explain need for structured analysis and design.	5
	٠	[b] Write difference between one time cost and recurring cost.	5
	Q.6	[a] What is Software engineering? Explain characteristics of software process.	5
•		[b] Explain prototype model.	5
		OR	
	Q.6	Explain Waterfall model in detail. Also write limitations of Waterfall model.	10
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