

DCA-2051

Seat No. ____

M. C. A. (Sem. II) Examination July - 2022

MCA-2051: System Analysis and Design

Tir	me : 2	2.30 H	Hours] [Total Marks:	70
1	(a)	Ans	wer the following:	4
	, ,	(1)	Give full form of SDLC.	
		(2)	Give full form of MIS.	
		(3)	In phase of SDLC, the system is used	
			experimentally to ensure that the software does not fail.	
		(4)	All definition of elements in the system is described	
		, ,	in detail in a Data Dictionary. True or False?	
	(b)	Answer any one in brief:		
		(1)	What is System?	
		(2)	What is subsystem?	
	(c)	Ans	wer any one in detail:	3
		(1)	List and explain types of user.	
		(2)	Explain System Prototyping methods.	
	(d)	Ans	wer any one:	5
		(1)	List and Explain all the phases of SDLC.	
		(2)	Explain categories of Information System.	
2	(a)	wer the following:	4	
		(1)	Give full form of DFD.	
		(2)	A is a matrix of rows and columns which	
			shows conditions and actions.	
		(3)	allows analyst to collect information about	
			various aspects of a system from large number people.	
		(4)	interviews use a questions and answers format	
			when the analyst wants to get the general information	
			about the system.	
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	(b)	Answer any one in brief:	2
		(1) What is Observation technique?	
		(2) What is Record Review technique?	
	(c)	Answer any one in detail:	3
		(1) Explain Decision Tree.	
		(2) Explain Structured English.	
	(d)	Answer any one:	5
		(1) Explain Data Flow Diagram.	
		(2) Explain interview fact finding technique.	
3	(a)	Answer the following:	4
		(1) In coding technique, code place separate	
		entities, such as events, people or objects into distinct	
		groups called classes.	
		(2) In coding technique, codes are either number	
		or letters assigned in series.	
		(3) List types of Output.	
		(4) List types of designing printed output.	
	(b)	Answer any one in brief:	2
		(1) What are the objectives of Output Design?	
		(2) What are the objectives of Input Design?	
	(c)	Answer any one in detail:	3
		(1) Explain types of presenting Information.	
		(2) Explain methods of Data capture.	
	(d)	Answer any one:	5
		(1) How to design a source document?	
		(2) What is coding technique? List and explain any two	
		coding techniques.	
4	(a)	Answer the following:	4
		(1) Give full form of HIPO.	
		(2) refers to the strength of the relationship	
		between modules in a system.	
		(3) Strength of relationship within a module is known as	
		(4) The data model relates entities by superior/	
		subordinate or parent/child relationship.	

	(b)	Answer any one in brief:	2
		(1) What is data model?	
		(2) What is modularity and partition?	
	(c)	Answer any one in detail:	3
		(1) Explain structured flowcharts.	
		(2) Explain System development in a database environment.	
	(d)	Answer any one:	5
		(1) Write a note on HIPO.	
		(2) Explain Hierarchical and Network data model.	
5	(a)	Answer the following:	4
		(1) What is Unit testing?	
		(2) is a level of the software testing where	
		complete and integrated software is tested.	
		(3) testing is the system testing performed by	
		the customer to determine whether to accept the	
		delivery of the system.	
		(4) testing is the system testing performed by	
		a select group of friendly customers.	
	(b)	Answer any one in brief:	2
		(1) Describe peak load test.	
		(2) Describe storage test.	
	(c)	Answer any one in detail:	3
		(1) Explain recovery test.	
		(2) Explain Pilot approach of system implementation	
		method.	
	(d)	Answer any one:	5
		(1) Explain Parallel and direct cut-over method.	
		(2) What is training? Explain training methods.	