Q-1

## C.U.SHAH UNIVERSITY Summer Examination-2016

Subject Name : System Analysis and Design & Unified Modeling Language

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	ester : 4 Date: 16/0	05/2016	Fime : 2:30 To 5:30	Marks: 70
(1 (2 (3	<ul> <li>ictions:</li> <li>Use of Programmable calc</li> <li>Instructions written on ma</li> <li>Draw neat diagrams and fi</li> <li>Assume suitable data if ne</li> </ul>	in answer book a gures (if necessa	are strictly to be obeyed	1
	Attempt the following ques	tions:		
a)	Which level does supply the (a) Operational (b) Environm	information to	-	of top management?
b)	Which is an example of a h (a) Array (b) Linked list (c)			
c)	Where requirement specifica (a) after requirements are (c) simultaneously with req determination	determined (b)	before requirements a	
d)	Why hardware study is requ (a) to find out cost of con (b) to determine the type final system specification (c) to make sure that the s (d) to find how to implem	nputer system of computer sy system does no	stem and software too	ols needed to meet the
e)	Which tasks are carried out d i) programs are written and ii) user documentation is c iii) programmers are recrui- iv) the system is tested wi (a) i and iii (b) ii and iii (	uring system in I tested with o reated and user ted and trained th operational o	perational data rs trained data	
f)	Changes made periodically (a) Analysis (b) design (c)			n, is known as?
g)	Class diagram, component di which type of diagram? (a) structural diagrams (c) non-behavioral diagrams	<ul><li>(b) behavioral</li><li>(d) non structure</li></ul>	diagrams ral diagrams	diagram are considered as
h)	Which type of activity is repr (a) Sequential (b) Joint (c) Pa	urallel (d) None	of these	
i)	The analysis phase takes a the design phase takes a implemented in code. (a) White box & Black box			

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	j)	<ul> <li>(c) Top-Down &amp; Bottom-Up (d) Bottom-Up &amp; Top-Down</li> <li>What is the input and output of design phase in SDLC?</li> <li>(a) Feasibility study report and Design draft (b) System requirement specification and Interface</li> <li>Design (c) Requirement analysis and GUI (d) Interface Design and Test plan</li> </ul>	1
	k)	What is beta testing?	1
		What is validation and verification?	1
	,	What is caption?	
		What is feedback?	1 1
Attemp	ot any f	four questions from Q-2 to Q-8	
Q-2		Attempt all questions	
-	<b>(a)</b>	Explain Feasibility Study.	7
	<b>(b)</b>	Explain various characteristics and Roles played by System Analyst.	7
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Q-3	$(\mathbf{a})$	Attempt all questions	7
	(a) (b)	Explain Structured Design in SSADM. Explain Management Information System (MIS) and Decision Support System (DSS)	7
	(0)	Explain Wanagement Information System (WIS) and Decision Support System (DSS)	'
Q-4		Attempt all questions	
c	<b>(a)</b>	Explain SDLC with all phases.	7
	<b>(b</b> )	What is System? Explain various characteristics of system.	7
Q-5		Attempt all questions	
	<b>(a)</b>	Draw Class diagram and Activity diagram of Online ticket booking for Theatre.	7
	<b>(b)</b>	What is testing? Explain various strategies of testing.	7
Q-6		Attempt all questions	
Q-0	(a)	What is DFD? Explain rules for leveling of DFD. Design Context diagram for Hospital	7
	(4)	Management System.	'
	<b>(b)</b>	Explain INCLUDE, EXTENDS and GENERALIZATION in USECASE diagram.	7
Q-7		Attempt all questions	
	<b>(a)</b>	Explain State diagram with suitable example.	7
	<b>(b</b> )	(1) Create a decision table for the following program in an office email system	7
		• Send email when Recipient address present, subject present, before 5:30pm	
		• If after 5:30pm then put in pending folder	
		• If Recipient address or subject message is missing, give warning message	
		(2) Create a decision table for a given situation	
		• If depositor's age is 21 or above and if the deposit is 1000Rs. or more, classify the account type as A.	
		<ul> <li>If the depositor is under 21 and the deposit is 1000Rs.or more, classify it as type B.</li> </ul>	
		<ul> <li>If the depositor is 21 or over and deposit is below 1000Rs.classify it as C.</li> </ul>	
		<ul> <li>If the depositor is under 21 and deposit is below 1000Rs.do-not open account.</li> </ul>	
		• If the depositor is under 21 and deposit is below 1000Ks.do-not open account.	

## Q-8

- **(a)**
- Attempt all questions Explain Fact Finding Techniques. Explain the various coding techniques. **(b)**

