

## 003-003308

B.C.A. (Sem.-III) (CBCS) Examination November-2013 CS-13: SAD, Software Quality Assurance and Testing

> Faculty Code : 003 Subject Code : 003308

Time: 21/2 Hours

Total Marks : 70

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- **Instructions** (1) Figures to the right indicate full marks of the question.
  - (2) Mark and state necessary assumption.
  - (3) Draw Diagram wherever necessary
  - (4) Write answers of all questions in main answer sheet.
- 1. Attempt all MCQ answer :
  - (1) The main objective of System Evaluation is
    - (a) to see whether the system met specification.
    - (b) to improve the system based on operational experience for a period.
    - (c) to remove bugs in the programs.
    - (d) to assess the efficiency of the system.
  - (2) The most important attribute of a system analyst is
    - (a) excellent programming skills
    - (b) very good hardware designing skills
    - (c) very good technical management skills
    - (d) very good writing skills
  - (3) What is Software?
    - (a) Set of computer programs, procedures and possibly associated document concerned with the operation of data processing.

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- (b) A set of compiler instructions
- (c) A mathematical formula
- (d) None of above
- (4) Waterfall model is not suitable for
  - (a) Small Projects
  - (b) Complex Projects
  - (c) Accommodating change
  - (d) None of above

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(5)	In ri	sk analysis of spiral model, w		of the following risk includes?			
		Technical Both (a) and (b)		Management None of these			
		2 2 2	(a)	None of these			
(6)		e line chart also called	(1)				
	(a)	Scheduling Gantt Chart	• /	Function Chart Line Chart			
(7)	. ,	2	(u)	Line Chart			
(/)	<ul> <li>A context diagram         <ul> <li>(a) describes the context of a system</li> </ul> </li> </ul>						
	. /	describes the context of a spin is a DFD which gives an ov					
		is a detailed description of					
		is not used in drawing a det					
(8)	Enh	ancements, upgrades and step in the SDLC.	bug	fixes are done during the			
	(a)	Maintenance and Evaluatio	n				
	(b)	Problem/Opportunity Ident	ificat	ion			
		Design	1				
	(d)	Development and Document	ntatio	'n			
(9)		al model was developed by					
		Bev Littlewood		Berry Bohem			
	• /	Roger Pressman		Victor Bisili			
(10)				technique is sometimes called			
	(a)			Graph Testing			
	``	Data Flow		Glass Box Testing			
(11)				os that needs to be followed to			
		elop an information system is Analytical cycle					
		Program specification		Design cycle System development life cycle			
(12)		- 1-					
(12)	<ul> <li>(12) The determines whether the project should go forward.</li> <li>(a) feasibility assessment</li> </ul>						
		opportunity identification					
		system evaluation					
		program)specification					
(13)	(13) A rectangle in a DFD represents						
. ,	(a)	a process	(b)	a data store			
	(c)-	an external entity	(d)	an input unit			
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	towa		pting	components working toget inputs and producing output	
		System		Network	
		Team	(d)		
	(15) Obje	ect oriented is part of			
	12 N 12 N	SDLC	(b)	Software Engineering	
	(c)	DFD	(d)	None	
		iminary investigation have n			
	<ul><li>(16) Preliminary investigation have parts</li><li>(a) Request clarification and Approval</li></ul>				
	. ,	Monitoring	ppio		
		Information			
	(A)	All			
	(17) Easi	est and fastest method of co	llect r	ight information is	
		Record review		Observation	
	(c)	Questionnaire		Interview	
	(a) -(t5) (c)	It is not their job.	ith ot al ski		ns.
	(d)	They are always very busy.	1		4
		harness is also known as			
	(a)	Test case	· · · •	Defect	
	(c)	Test Framework	<b>(</b> d)	All	
		at is subsystem ?	,		
		New system		Main system	
	(c)	Part of system	(d)	None	
2.	(a) Atte	mpt any three :	1		6
		Explain Context Level DFI	).		U
		Explain System Testing.			
		Explain System and Subsys	tem.		
	(4)	Explain Timeline Chart.			
		Explain Quality Control.		• .	
	(6)	Explain Test Harness.		<i>a</i> .	
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() () () () () ()	<ul> <li>Attempt any three :</li> <li>Write a note on freeware and shareware.</li> <li>Explain Informal Review, Technical Review and Inspection.</li> <li>Explain Decision Tree with suitable example.</li> <li>Explain role of System Analyst.</li> <li>Write a short note on Automated Estimation tools.</li> <li>Explain Gray-Box Testing.</li> <li>Attempt any two :</li> <li>Explain Fact Finding Techniques in detail.</li> </ul>	9 10
(	<ol> <li>2) Explain Waterfall model.</li> <li>3) Explain Project Management.</li> <li>4) What is UML ? Explain Use Case Diagram.</li> <li>5) Write a short note on Software Faults and Failures.</li> </ol>	
	<ul> <li>Attempt any three :</li> <li>1) Explain Unit Testing.</li> <li>2) Explain Data Dictionary.</li> <li>3) Explain PERT Chart.</li> <li>4) Write a note on Test Plan.</li> <li>5) Explain Security Testing.</li> <li>6) Explain Quality Assurance</li> </ul>	6
) () () () ()	<ul> <li>Attempt any three :</li> <li>(1) Explain Activity Diagram with suitable example.</li> <li>(2) Explain Decision Table with suitable example.</li> <li>(3) Explain Project Monitoring and Control progress.</li> <li>(4) Explain Win Runner Testing tool.</li> <li>(5) Explain Big Bang Model.</li> <li>(6) Difference between Quality Assurance and Quality Control.</li> </ul>	9
	<ul> <li>Attempt any three :</li> <li>(1) Explain SDLC in detail.</li> <li>(2) Explain Software Testing Techniques.</li> <li>(3) Explain Spiral Model in detail.</li> <li>(4) Explain Project Estimation Technique.</li> <li>(5) Explain Project Scheduling and Tracking.</li> </ul>	10
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