

115/A

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

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:

20

- (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.
 - (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
 - Accommodating change
 - (d) None of above

P.T.O.

(5) In risk analysis of spiral model, which of the following risk includes? (a) Technical (b) Management (c) Both (a) and (b) (d) None of these (6) Time line chart also called (a) Scheduling (b) Function Chart (c) Gantt Chart (d) Line Chart (7) A context diagram (a) describes the context of a system (b) is a DFD which gives an overview of the system (c) is a detailed description of a system (d) is not used in drawing a detailed DFD (8) Enhancements, upgrades and bug fixes are done during the step in the SDLC. (a) Maintenance and Evaluation (b) Problem/Opportunity Identification (c) Design (d) Development and Documentation (9) Spiral model was developed by (a) Bey Littlewood (b) Berry Bohem (c) Roger Pressman (d) Victor Bisili (10) White box testing, a software testing technique is sometimes called (a) Basic Path (b) Graph Testing (c) Data Flow (d) Glass Box Testing (11) The organized process or set of steps that needs to be followed to develop an information system is known as the

- (a) Analytical cycle (b) Design cycle
- (c) Program specification
- (d) System development life cycle
- (12) The determines whether the project should go forward.
 - (a) feasibility assessment
 - (b) opportunity identification
 - (c) system evaluation
 - (d) program)specification
- (13) A rectangle in a DFD represents
 - (a) a process (c) an external entity
- (b) a data store (d) an input unit

003-003308

2

003-003308

	14) is a group of interested components working together						
		ards a common goal by accepting inputs and producing outputs in organized transformation process.					
	(a)	System		Network			
		Team	(b) (d)	System Unit			
			(u)	System Onn			
		ect oriented is part of	(1.)	0.0			
	(a)	SDLC - DFD	(b)	Software Engineering			
	٠,		(d)	None			
	(16) Preliminary investigation have parts						
	(a) Request clarification and Approval						
	(b)	Monitoring Information					
	(c) (d)	All					
	,						
	(17) Easiest and fastest method of collect right information is						
	(a)			Observation			
	(c)	Questionnaire	1 11	Interview			
(18) Managers in organization should not design their own systems							
	(a)	Systems have no interact with other systems. They do not have the special skills necessary to design systems.					
			ial ski	lls necessary to design system	ms.		
	(c) (d)	It is not their job. They are always very busy		Í			
			•	ı			
	. ,	t harness is also known as	4.5	D.C.			
	(a)	Test case Test Framework		Defect			
	(c)		(d)	All			
		at is subsystem?					
		New system		Main system			
	(c)	Part of system	(d)	None			
2.	(a) Atte	empt any three :			6		
		Explain Context Level DF	D.		U		
		Explain System Testing.					
		Explain System and Subsys	stem.				
	(4)	Explain Timeline Chart.					
	(5)	Explain Quality Control.		• (
		Explain Test Harness.					
003	-003308		3		P.T.O.		

(b	9 9000	empt any three:	9
	(1)	Write a note on freeware and shareware.	
		Explain Informal Review, Technical Review and Inspection.	
		Explain Decision Tree with suitable example.	
		Explain role of System Analyst.	
		Write a short note on Automated Estimation tools.	
	(0)	Explain Gray-Box Testing.	
(c		empt any two:	10
		Explain Fact Finding Techniques in detail.	
		Explain Waterfall model.	
		Explain Project Management.	
		What is UML? Explain Use Case Diagram.	
	(5)	Write a short note on Software Faults and Failures.	
3. (a) Atte	empt any three :	6
. (.		Explain Unit Testing.	
		Explain Data Dictionary.	
		Explain PERT Chart.	
	(4)	Write a note on Test Plan.	
	(5)	Explain Security Testing.	
	(6)	Explain Quality Assurance	
(b) Atte	empt any three:	9
	(1)	Explain Activity Diagram with suitable example.	
		Explain Decision Table with suitable example.	
		Explain Project Monitoring and Control progress.	
		Explain Win Runner Testing tool.	
		Explain Big Bang Model.	
	(6)	Difference between Quality Assurance and Quality Control.	
(c		empt any three :	10
		Explain SDLC in detail.	
		Explain Software Testing Techniques.	
		Explain Spiral Model in detail.	
		Explain Project Estimation Technique.	
	(5)	Explain Project Scheduling and Tracking.	
003.00	1200	 -	
00.3-00	LT MIX	4	1