

JX-003-1015015

Seat No.

B. Sc. (Computer Science) (Sem. V) (CBCS) Examination

October - 2019

CA - 503 : Software Engineering & Linux

Faculty Code: 003 Subject Code: 1015015

Time	e: 2	1 Ho	ours]	Total Marks: 70
1	(a)	Answer the following in one line, one word or give full form:		rd or give 4
		1.	Full form of SDLC.	
		2.	What is a Business System?	
		3.	Full form of DFD.	
		4.	Full form of UML.	
	(b)	Attempt any one:		2
		1.	What is a role of system analyst?	
		2.	What is a sequence Diagram?	
	(c)	Explain any one:		3
	` /	1.	$0^{ ext{th}}$ and $1^{ ext{st}}$ level DFD for ATM.	
		2.	What is decision tree? Explain with	example ?
	(d)	Attempt any one:		
	, ,	1.	Explain SDLC.	
		2.	Explain Activity and Use Case Diagr	am with example.
2	(a)	Answer the following in one line, word or full form:		
		1.	Full form of QA	
		2.	Full form of PM-CMM.	
		3.	What is the meaning of SEI- CI company?	MM level 5
		4.	is an international stan evaluation of software.	dard for the
	(b)	Attempt any one:		2
		1.	What is a software engineering?	
		2.	What is a QA?	
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	(c)	Explain any one:		
		1. What is a McCall's Quality Factor?		
		2. What is Six Sigma?		
	(d)	Explain any one in detail:		
		1. Waterfall Model		
		2. Spiral Model.		
3	(a)	Answer the following in one line, word or Full form:		
		1. Full form of SLOC		
		2. Full form of PERT chart.		
		3. What is a testing?		
		4. Full form of SRS.		
	(b)	Differentiate any one:	2	
		1. Fault and Failure.		
		2. Test Case and Test Script.		
	(c)	Explain any one :	3	
		1. Risk Management in Software Engineering	g.	
		2. Explain following testing. (Any three)		
		a. Performance testing		
		b. Stress testing		
		c. System testing		
		d. Load testing.		
	(d)	Explain any one in detail:		
		1. COCOMO Model with types.		
		2. White box testing with methods and techn	niques.	
4	(a)	Answer the following in one line, word or Full form:		
		1. What is a Kernel?		
		2. The history of Linux began in 1991 wi commencement of a personal project by F student to create a new free open system kernel.	Finnish	
		3. What is ctrl - f command in vi ?		
		4. What is file structure of UNIX?		

	(b)	Explain any one :		2
		1.	What is a Piping and Redirection in UNIX?	
		2.	What is a freeware and open source?	
	(c)	Explain any one:		
		1.	Modes of Vi editor	
		2.	Functions of OS.	
	(d)	Explain any one in detail:		5
		1.	Types of OS.	
		2.	Explain Following Commands.	
			a. Chmod b. Umask c. grep d. Nice e. Cron	
5	(a)	Answer the following in one line, word or Full form:		4
		1.	Full form of XFce.	
		2.	What is GNOME used for ?	
		3.	Full form of KDE.	
		4.	The variable is a special system-wide environment variable found on Windows NT and its derivatives.	
	(b)	Explain any one:		2
		1.	Shell Variables.	
		2.	Positional parameters	
	(c)	Explain any one:		3
		1.	Operators in Shell Scripting.	
		2.	Decision Statements in Shell Scripting.	
	(d)	Exp	olain any one in detail :	5
		1.	Windows Desktop Environment.	
		2.	Write a shell script to check whether the number is prime or not.	

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