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Dr. Ambedkar Institute of Technology, Bangalore – 560056 (An Autonomous Institution Affiliated to Visvesvaraya Technological University, Belgaum)

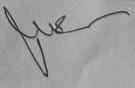
Fifth Semester B.E. Degree (Autonomous) Continuous Internal Evaluation – 1 (CIE – 1)

			Odd Semester 2021 – 2022		01.70	t- 00	2 20			
Do	te:24	-11-2021			s:01.30 p					
Day: Wednesday		The second secon	I IIIIC dui				uration: 60 Minutes			
SOMEONIA	distance and the same	Annual Comment of the			arks: 25					
commissioner	Maria Commission which	nme: BE/CSE	CIE 1	aculty	in-charg	e: MVI	P, JK			
Q. No.		T	Note: Answer ALL the questions			СО	BTL* Cognitive Level			
1.	a)	Justify your	elationship Management (CRM), Warehouse Management,	ns and	5	COI	L4			
	b)		diagram, illustrate the Extreme Programming process.		5	COI	L3			
2.	a)	Prepare a	Software Requirement Specification (SRS) document for Information Management System which will be helpful for far	or an	5	CO2	L4			
	b)	Identify varie (i) Coconut	ous stakeholders for the following systems: Plantation Management System. y Mart Automation System.		5	CO2	L4			
			OR							
	c)	(i) University	mplete use cases for the following: ty Insurance Management System.		5	CO2	L4			

3. Answer ALL the questions.			$10 \times \frac{1}{2} = 5$					
1	Functional requirements d	eals	with	A Charles				
	A System functions	В	B Design		Evolution	D	Coding	
2	UML stands for	UML stands for						
	A Unified Modeling Language	В	Universal Motion Language	С	Unified Model Length	D	Universal Mobile Language	
3	Which of the following is	not a	software process?	25 1975 at 1975				
	A Specification	В	Design	C	Evolution	D	Legacy	
4	Which of the following is a	not a	type of software testing	ng?				
	A Unit	B	System	C	Evolution	D	Integration	
5	Which of the following is i	not r	elated to pair programi	ning				
	A Common responsibility	В	Support refactoring	C	Informal review	D	Single developer	
6	A is a purpo	seful	collection of interrela	ted co	omponents that work	ogeth	er to achieve some	
	A Software	В	Network	C	Application	D	System	
7	Which of the following is t	not a	phase in Unified Proc	ess m	odel?			
	A Construction	В	Transition	C	Inception	D	Perception	
8	A is a collection of	of ac	tivities, actions and tas	ks pe		ct dev		
	A Process	B	Framework	C	Model	D	Viewer	
9	Which of the following dea	ıls w		isines				
	A Inception	В	Elicitation	C	Elaboration	D	Specification	
10	is an exa	mple	of Behavior Model.					
	A Process Diagram	B	State Diagram	C	Object Diagram	D	Context Diagram	

BTL* - Bloom's Taxonomy Level

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Fifth Semester B.E. Degree (Autonomous) Continuous Internal Evaluation - 2 (CIE – 2)
Odd Semester 2021 - 2022

Da	te:27	-12-2021	Subject Title: Software Engineering	Timing	s:01.30 pt	n to 02	.30 pm	
Day: Monday		onday	Subject Code: 18CS51		duration: 60 Minutes			
Pro	ogran	nme: BE/CSE			Max marks : 25			
Semester: 5		er: 5	CIE – 2	Faculty	in-charge	e: MVP	, JK	
Q. No.			Note: Answer ALL the questions			со	BTL* Cognitive Level	
1.	a)	Propose sev software de	5	CO3	L3			
	b)	Suggest var Strong Pass	5	CO3	L4			
2.	a)	Develop a c	component level design for Hospital Manager	nent System.	5	CO3	L4	
	b)	Briefly exp	lain Scenario-based modeling with a suitable	example.	5	CO2	L3	
			OR					
	c)	(i) College	Activity Diagram for the following: Admission Process. an Online Insurance.	makerin de par apper de la company	5	CO2	L4	

3. Answer ALL the questions				$10 \times \frac{1}{2} = 5$						
1	is measured	using thro	oughput and respons	e time.						
	A Reliability	В	Availability	C	Usability	D	Performance			
2	is d	eveloped	to represent architec	tural de	sign models.					
	A FSM	В	Data dictionary	C	Pattern	D	ADL			
3	Which of the following	ng is not a	ffected by system ar	chitectu	re?					
	A Performance	В	Availability	C	Analysis	D	Safety			
4	Which of the following	ng is the m	nost common manife	estation	of separation of con	ncern?				
	A Pattern	В	Abstraction	C	Modularity	D	Hiding			
5	Indication of the relat	ive interde	ependence among m	odules i						
	A Coupling	В	Cohesion	C	Inheritance	D	Association			
6	Metaphor used to doc	ument leg	acy architectural so	lutions i	s	Market S				
	A Literature	В	Language	C	Decision	D	Blueprint			
7	coupling or	ccurs whe	n a component com	municat	es or collaborates v	vith infra	structure components.			
	A Content	В	Control	С	External	D	Class			
8	Which of the followin	g is not a	system organization	model	?					
	A Component	В	Repository	C	Client-server	D	Layered			
9	Which of the following	ig is not a	layer of the client-s	erver m	odel?					
	A Servers	В	DBA	C	Clients	D	Network			
10	m	nodels des	cribe the environme	ent of a	system.					
	A Behavioral	В	Data	C	Object	D	Architectural			
				THE RESERVE OF THE PARTY OF THE	The state of the s	A				

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Fifth Semester B.E. Degree (Autonomous) Continuous Internal Evaluation - 3 (CIE - 3)
Odd Semester 2021 - 2022

Date:27-01-2022							:01.30 pm to 02.30 pm			
Day: Thursday			Subject Code: 18CS51	uration:	ration: 60 Minutes					
Programme: BE/CSE		nme: BE/CSE	Makeup CIE M	ax ma	arks: 25	rks: 25				
Se	meste	er: 5	CIE – 3 Fa	culty	in-charge	in-charge: MVP, JK				
Q. No.			Note : Answer ALL the questions		Marks	СО	BTL* Cognitive Level			
1.	Design various test cases for computer based census management system				5	CO4	L4			
	b)	b) Distinguish between white-box testing and black-box testing with suitable examples.					L3			
2.	a)	"Effective software project management focuses on four P's". Justify thi statement with suitable analogy.				CO5	L4			
	b)			teps	5	CO5	L3			
			OR							
	c)	Briefly exp project estir	lain various decomposition techniques used during softw nations.	vare	5	CO5	L2			

3	3. Answer ALL the questions $10 \times \frac{1}{2} = 5$							
1	testing addresses the	e issu	ues associated with the	dual	problems of verification	n an	d program construction.	
	A Unit	В	Integration	C	System	D	Regression	
2	testing executes a sys	tem	in a manner that deman	ids res	sources in abnormal qua	antity	y, frequency, or volume.	
	A Recovery	B	Security	C	Stress	D	Performance	
3	Basis path testing is an exa	mple	e of	40				
	A Gray-box testing	В	Black-box testing	C	White-box testing	D	Smoke testing	
4	PDL stands for							
	A Program description	В	Program definition	C	Program derivation	D	Program design	
	language		language		language		language	
5	Which of the following rep	rese	nt the relationships be	tween	objects in graphs?			
	A links	B	nodes	C	weights	D	regions	
6	A paradigm struc	tures	a team along a traditi	onal h	ierarchy of authority.			
	A closed	В	random	C	open	D	synchronous	
7	Which of the following is a	fun	ction of the number of	actor	s and transactions impl	ied b	by the use-case models?	
	A FP	В	UCP	C	LOC	D	KLOC	
8	is the degree to	which	h the software perform	is its r	required function.			
	A Integrity	В	Correctness	C	Usability	D	Reliability	
9	The average project spends		percent of its time on	rewo	rk.			
	A 60	B	70	C	80	D	90	
10	Which of the following is a	dyn	amic multivariable mo	del th	nat assumes a specific o	listri	bution of effort over	
	the life of a software develo			1				
	A COCOMO II	В	problem-based	C	process-based	D	software equation	
				THE REAL PROPERTY.	2000年1月1日 1月1日 1月1日 1月1日 1日 1		化多种性物质 化阿里克克尔阿里克斯克克克尔	







FIFTH Semester BE Degree Semester End Examination (SEE), FEB/MAR-2022

SOFTWARE ENGINEERING

[Time:	3 Hours]	[Maximum Marks: 100]				
		Instructions to students:					
		 (i) Answer FIVE FULL Questions as per the choice. (ii) Any Missing Data can be assumed suitably. (iii)Use BLACK ball point pen for text, figure, table, etc. 					
			Marks	СО	RBT		
1.	. a)	With a neat diagram, illustrate the Extreme Programming process.	[06 Marks]	CO1	Level L3		
	b)	Recommend the suitable software life cycle model for the following systems and Justify your answer:	[06 Marks]	CO1	L4		
		Enterprise Resource Planning (ERP), Logistics Management, Payroll System.					
	c)	Describe the essence of software engineering practice.	[04 Marks]	C01	L2		
	d)	Distinguish between personal software process and team software	[04 Marks]				
		process.	[04 Mai KS]	C01	L3		
		OR					
2.	· 'a)	With a neat diagram, describe the overall flow of the Scrum process.	[05 Marks]	CO1	L2		
	•b)	Provide three examples of software projects that would be amenable to the component based model. Explain your answer with justification.	[06 Marks]	CO1	L4		
	c)	List various prescriptive process models. Explain any three models in detail.	[09 Marks]	CO1	L2		
3.	a)	Design complete use case diagrams for the following activities: (i) Unified Payment System (ii) Jewellary Most Automatics S	[09 Marks]	CO2	L4		
		(ii) Jewellary Mart Automation System (iii) Student Course Registration System					
	b)	Briefly explain Requirements Analysis Process.	[07 Marks]	CO2	Ta		
	c)	Write various functional and non-functional requirements for the	[04 Marks]	CO2	L2 L2		
		Retail Chain Management System.	[evaluation]	CO2	Liz		
		OR					
4.		Prepare an IEEE standard Software Requirements Specification document for a Smart City Information Management System	[08 Marks]	CO2	L4		
	√ b)	Define requirements engineering. List and explain seven distinct tasks of requirements engineering.	[08 Marks]	CO2	L2		
	√ C)	Design Activity Diagrams for the following: (i) Online Shopping (ii) Ticket vending machine	[04 Marks]	CO2	L4		
5.	a)	Suggest various design patterns for the following: Strong application passwords, Smart Web Pages, Banking App	[06 Marks]	CO3	L4		

	b)	Briefly explain the taxonomy of architectural styles with suitable examples.	[08 Marks]	CO3	L3
	c)	Describe basic design principles applicable to Component level design. OR	[06 Marks]	CO3	1.2
6.	/a)	Develop a component level design for Digital Library Management	[08 Marks]	CO3	L4
		System.	[00 Ivan no]	603	LJ-1
	b)	Design architectural context diagram for the following systems: (i) Hospitality Management System (ii) Formmore we have:	[04 Marks]	CO3	L4
	/c)	(ii) E-commerce website Briefly describe each of the four elements of the design model.	[08 Marks]	CO3	L2
	VC)	briefly describe each of the four elements of the design model.	[00 Marks]	COS	114
`7.	√a)	Distinguish between white-box testing and black-box testing.	[06 Marks]	CO4	L3
	√b)	What is meant by System Testing? Describe various types of System	[06 Marks]	CO4	L2
		Testing.			
	/c)	Explain Basis path testing in detail.	[08 Marks]	CO4	L2
8.	a)	OR	[05 Marks]	COA	L4
0.	a)	Design various test cases for digital advertisement agency management system.	[US IVIAI KS]	CO4	L4
	b)	Explain a strategic approach to software testing.	[07 Marks]	CO4	L2
	c)	Illustrate graph based testing methods and boundary value analysis	[08 Marks]	CO4	L3
		with suitable real time examples.			
9.	a)	"Effective software project management focuses on four P's". Justify	[08 Marks]	CO5	L4
		this statement with suitable analogy.			
	b)	List and explain various project resources.	[04 Marks]	CO5	L2
	c)	Briefly explain any four software metrics used for software	[08 Marks]	CO5	L2
		measurement.			
		OR			
10		Briefly explain various decomposition techniques used during software project estimations.	[06 Marks]	CO5	L2
	√ b)	Illustrate the roles of software teams and team leaders in software	[06 Marks]	CO5	L3
	/c)	project management. How to establish a software metrics program? Illustrate with various	[08 Marks]	COS	12
	V C)	How to establish a software metrics program? Illustrate with various steps and goals.	[00 Warks]	CO5	L3
		Party Party			

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