Total No. of Questions: 6

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Faculty of Engineering End Sem Examination May-2024

CB3CO24 Software Engineering

Branch/Specialisation: CSBS Programme: B.Tech.

Duration: 3 Hrs. Maximum Marks: 60

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of

		should be written in full instead		Assume suitable data	if	
Q.1	i.	What is a functional requirer	ment?		1	
		(a) Specifies the tasks the pro-	ogram must complete			
		(b) Specifies the tasks the program should not complete(c) Specifies the tasks the program must not work				
	ii.	The user system requirement	•		1	
		(a) SDD (b) SRS	` '	(d) SRD		
	iii.	Software is defined as			1	
		(a) Set of programs, docume	ntation & configuratio	n of data		
	(b) Set of programs					
		(c) Documentation and configuration of data				
		(d) None of these			4	
	iv.	Which of the following is not a diagram studied in requirement analysis?				
		(a) Use cases	(b) Entity relationshi	p diagram		
		(c) State transition diagram	(d) Activity diagram			
	v. The requirements that result from requirements analysis are					
		expressed from one of thr	ree perspectives or vi	iews. What is that		
		perspective or view?				
		(a) Developer (b) User				
	vi.	is a measure of t	the degree of interde	ependence between	1	
		modules.				
		(a) Cohesion	(b) Coupling			
		(c) Both (a) and (b)	(d) None of these			

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	vii.	Actual programming of software code is done during the step in the SDLC.			
		(a) Maintenance and evaluation(b) Design(c) Analysis			
		(c) Analysis			
		(d) Development and documentation	1		
	viii.		1		
		that a computer will use to perform that task.			
		(a) Project design (b) Installation			
		(c) Systems analysis (d) Programming			
	ix.	Which of the following is the task of project indicators?	1		
		(a) Help in assessment of status of ongoing project			
		(b) Track potential risk			
		(c) Help in assessment of status of ongoing project & track potential risk			
		(d) None of these			
	х.		1		
	Λ.	organizational performance?	1		
		(a) Market (b) Product (c) Technology (d) People			
		(a) Warket (b) Froduct (c) Technology (d) Feople			
Q.2	i.	Explain any two software myth.	2		
Q. <i>2</i>	ii.	Explain any two software myth. Explain spiral model & write down its advantage and disadvantages.	8		
OR	iii.	Explain rational unifies process in detail of each phase.	8		
OK	111.	Explain fational unifies process in detail of each phase.	o		
Q.3	i.	Explain software stakeholders.	2		
	ii.	Explain class-based modelling and its description with the help of any	8		
		software project example in detail.			
OR	iii.	Explain data flow diagram and its description with the help of any	8		
		software project example in detail.			
Q.4	i.	Describe abstraction, architecture, modularity.	3		
	ii.	Explain component design with example.	7		
OR	iii.	Explain user interface design, configuration management in detail	7		
		with example.			
		1			
Q.5	i.	What is software quality? How can we assure the quality of software?	4		
•	ii.	Explain in detail risk assessment & risk mitigation.	6		
OR	iii.	Define software testing, also explain its types.	6		
		,	-		

Q.6		Attempt any two:		
	i.	Explain COCOMO models with example.		
	ii.	Write differences between process metrics and product metrics.		
	iii.	What is software project estimations? How can we calculate it?	5	
		Explain with example.		

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Marking Scheme

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Q.1	 i) ii) iii) iv) v) vi) vii) viii) ix) x) 	A B A D D D D B D C A	1 1 1 1 1 1 1 1 1	
Q.2	Q.2 i. Explain any two software myth.			
		Explanation 2 Marks	2	
	ii.	Explain Spiral Model & write down its advantage and	8	
		disadvantages?		
		Explanation 5 Marks advantage and disadvantages? 3 Marks		
OR	iii.	Explain Rational Unifies Process in details of each phase?	8	
		Explanation 5 Marks		
		Phase 3 Marks		
0.2				
Q.3	i.	Explain software Stakeholders. Explanation 2 Marks	2	
	ii.	Explain class-based modelling and its description with the help of	8	
	11.	any software project example in details?	Ü	
		Explanation 5 Marks		
		Example 3 Marks		
OR	iii.	Explain Data Flow Diagram and its description with the help of	8	
		any software project example in details?		
		Explanation 5 Marks		
		Example 3 Marks		
Q.4	i.	Describe Abstraction, Architecture, Modularity?	3	
	Each 1 mark		-	

	ii.	Explain component design with example.		7
		Explanation	4 Marks	
		Example	3 Marks	
OR	iii.	iii. Explain User Interface Design, Configuration Management details with Example?		7
		Explanation	4 Marks	
		Example	3 Marks	
Q.5	i.	What is Software Quality? I software?	How can we assure the quality of	4
		Explanation	4 Marks	
	ii.	Explain In details Risk Assess	sment & Risk Mitigation?	6
		Risk Assessment	3 Marks	
		Risk Mitigation	3 Marks	
OR	iii.	Define Software Testing, also explain its types		6
		Explanation	3 Marks	
		Types	3 Marks	
Q.6		Attempt any two:		
	i.	Explain COCOMO Models with example 5		
		Explanation	3 Marks	
		Example	2 Marks	
	ii. Write difference between Process Metrics and Product Metrics.			5
		Each difference	5 Marks	
	iii.	What is Software Project Es explain with example.	stimations, how can we calculate it	5
		Explanation	3 Marks	
		Example	2 Marks	

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