Reg. No.				

B.Tech. DEGREE EXAMINATION, JANUARY 2024

Fourth Semester

18CSC206J - SOFTWARE ENGINEERING AND PROJECT MANAGEMENT

(For the candidates admitted from the academic year 2020-2021 & 2021-2022)

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Part - A should be answered in OMR sheet within first 40 minutes and OMR sheet should be handed over to hall invigilator at the end of 40th minute. (i)

(ii)		over to hall invigilator at the end of 40 th m Part - B & Part - C should be answered in	inute n ans	wer booklet.				
Time	. 3]	nours		M	ax. Ma	arks	: 10	0
1 IIIIC	, , ,		30.1	Manka	Marks	BL	со	PO
		$PART - A (20 \times 1 =$						
		Answer ALL Qu		Olis	1	1	1	11
	1.	Agile software development is based of	(B)	Iterative development				
		(A) Incremental development(C) Linear development	(D)	Both incremental and iterative development				
	2.	Which of the following life cycle mo	del	can be chosen if the development	1	1	5	1
		team has less experience on similar pr	ojeci	ts?				
		(A) Spiral	(B)	Waterfall				
		(C) RAD	(D)	Iterative				
				11 C 11 C-11	1	1	4	5
	3.	Which is one of the most important st	akeh	olders from the following:				
		(A) Entry level personnel	(B)	Middle level stakeholder				
		(C) Managers	(D)	Users of the software				
		- and the Community of doors	not i	include	i	2	1	2
	4.	Efficiency in a software product does	(D)	Memory utilization				
		(A) Responsiveness	(D)	Processing time				
		(C) Licensing	(D)	1 Tools on the				
	5	Who designs and implements database	e str	uctures?	1	1	5	11
	٥.	(A) Programmers	(B)	Project managers				
		(C) Technical writers	(D)	Database administrators				
					1	1	1	1
	6.	ER model shows the	(T)	The estimated views				
		(A) Static view		Functional view Both functional and dynamic				
		(C) Dynamic view	(D)	view view	,			
		Which of the following is a mechani	cm tl	hat allows several objects in a class	s 1	1	1	1
	7.	hierarchy to have different methods v	with	the same name?				
			(B)	Inheritance				
		(A) Aggregation(C) Polymorphism		Encapsulation				
					1	1	2	1
	8	Which of the following is not a web	engi	neering project metrics?	,		-	•
		(A) Number of static content	(B)	Number of dynamic content	i			
		object	,	objects				
		(C) Number of inherited objects	(D)) Word count	04JF4-1	8CSC	206J	

9.	System prototyping helps the designer is	n	1	1	2	3
	(A) Making the program (I understand how the system will function					
	(C) Communicating to the user (I quickly how the system will look like when develop and get a feedback	D) Not giving demo of software to the manager to whom he records				
10.	())1	in architectural design decisions? B) Distribution of the system D) Testing the system	1	1	2	3
11.	Which view in architectural design shows as objects or object classes?	ws the key abstractions in the system	1	2	4	2
	(A) Physical (I	B) Development D) Process				
12.	is the most formal type of revie aerial the defect multiplication at a stage		1	1	3	5
	(A) Code inspection (E) (C) Debugging	B) Coding Code freezer				
13.	Which one of the following term described (A) Finding broken code	bes testing? B) A stage of all projects	1	1	3	3
	(C) Evaluating deliverable to find (l errors	,				
14.	Alpha testing is done at	D) II 1	1	1	5	11
	()	B) User's end D) Developer's and user's end				
15.	Maintenance testing in performed using		1	1	2	3
	(A) Retesting (I (C) Breadth test and depth test (I	B) Sanity testingD) Confirmation testing				
16.	What should a project manager do or to project completion?	follow to ensure clear boundaries for	1	1	3	3
	` , 1	B) Completing a scope statement D) Risk management plan				
17.	is a type of product release complete and all development done, more	of in which the product reactives is	1	1	3	3
		B) Normal release				
	(C) Internal release	D) Beta release				
18.	observed while the system is in use, o system.	e essential either to rectify some bugs or to enhance the performance of the	1	1	4	1
	(A) Corrective maintenance (B) Adaptive maintenance				
	(C) Perfective maintenance	D) Preventive maintenance				

19.	engineering is most useful when non existent on sketch documentation is available for the software product. (A) Forward (B) Re (C) Reverse (D) Back	1	1	5	1
20.	is a reason for software maintenance in which the software or hardware platform on which the software product runs get obsolete. (A) Software defects (B) Change in user requirements (C) Technology obsolescence (D) New user requirement	1	1	4	3
	PART – B (5 \times 4 = 20 Marks) Answer ANY FIVE Questions	Marks	BL	со	РО
21	Brief about any four Requirements Elicitation Techniques.	4	2	1	I
22.	What are the generic process framework activities?	4	1	2	9
23.	List the characteristics of a good software design.	4	2	3	5
24.	Write about the software design methods.	4	2	2	3
25.	Summarize the different kinds of source code reviews performed.	4	1	3	3
26.	Differentiate between verification and validation.	4	2	4	2
27.	List the software product release types.	4	3	5	5
	PART – C ($5 \times 12 = 60$ Marks) Answer ALL Questions	Marks	BL	со	PO
28. a.	Elaborate the evolutionary process models (any two).	12	4	I	11
b.	Compute the function point, productivity and cost per function for the following data (i) Number of EI = 24 (weight average, 4) (ii) Number of EO = 46 (weight average, 4) (iii) Number of EQ = 4 (weight complex, 6) (iv) Number of ILF = 4 (weight average, 10) (v) Number of EIF = 2 (weight simple, 5) (vi) Effort = 36.9 Person-month (vii) Cost = \$7744/ month Various processing complexity factors are 4, 1, 0, 3, 3, 5, 4, 4, 3, 3, 2, 2, 4, 5.	12	5	1	3
29. a.	Discuss any three software design techniques.	12	3	2	3
b.	(OR) Explain different architectural styles.	12	3	2	5

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30. a.	Explain the software construction characteristics.	12	4	3	3
	(OR)				
b.	Write short note on	8+4	4	3	3
	(i) Software code reuse methods				
	(ii) Construction quality techniques in iterative models				
31. a.	What are the verification and validation techniques? Explain.	12	4	4	5
	(OR)				
b.	Describe briefly	6+6	6	4	5
	(i) Test life cycle				
	(ii) Defect life cycle				
32. a.	Write brief note on	6+6	4	5	1
	(i) Maintenance life cycle				
	(ii) Maintenance engineering techniques				
	(OR)				
b.	Elaborate the software maintenance process models.	12	2	5	11

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