B.Tech. (Computer Science & Engineering) Fifth Semester (C.B.C.S.) Winter 2022

Software Engineering & Project Management

P. Pages : 1

SPM/KW/22/2652

Time : Three Hours

* 0 1 5 8 *

Max. Marks : 70

Notes :
1. All questions carry marks as indicated.
2. Solve Question 1 OR Questions No. 2.
3. Solve Question 3 OR Questions No. 4.
4. Solve Question 5 OR Questions No. 6.
5. Solve Question 7 OR Questions No. 8.
6. Solve Question 9 OR Questions No. 10.
7. Due credit will be given to neatness and adequate dimensions.
8. Assume suitable data whenever necessary.

1.	a)	Define Software Engineering. Highlight the characteristics of software.	8
	b)	Explain software Engineering – a layered Technology.	6
		OR	
2.	a)	Explain common process framework for software engineering in detail.	7
	b)	What is an agile process? Explain the principle of agility.	7
3.	a)	Explain system engineering hierarchy in detail.	7
	b)	What is FAST? Explain in detail.	7
		OR	
4.	a)	What is SRS? Explain in brief.	6
	b)	What is requirement engineering? Explain steps in requirement engineering.	8
5.	a)	What are the different constructs in object oriented analysis? Describe.	6
	b)	Explain data flow diagram in detail. Give the extension suggested by Ward & Mellor.	7
		OR	
6.	a)	Write short note on cohesion and coupling.	6
	b)	Explain design principles in detail.	8
7.	a)	Explain the White Box Testing technique in detail.	6
	b)	What is Risk? Explain the different types of Risk. Explain How software Risk is Protected and Managed.	8
		OR	
8.	a)	What is Debugging? Explain the process of debugging in detail.	7
	b)	Explain RMMM plan. Also explain the concept of risk projection.	7
9.	a)	Explain McCall's quality factors.	6
	b)	What are the various form of COCOMO model? Describe them in brief. How Decision tree is used in making make by decision of software systems?	8
		OR	
10.	a)	Explain various layers of SCM process.	8
	b)	Write a note on re-engineering and reverse engineering.	6

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