Total number of printed pages: 2 Programme(UG)/VI/ UCSE602 2024

Software Engineering

Full Marks: 100

Time: Three hours

The figures in the margin indicate full marks for the questions.

Answer any five questions.

1	. a	Define the following terms in brief:	2x5=10
		i) Software Engineering ii) Requirement analysis	283-10
		iii) LOC iv) DFD v) Function point metric	1
	b	Why is it important to follow a life cycle model in software development?	
	<u></u>		5
	(c)	Mention the different reasons of software crisis.	5
2.	(a)		3
		to the folia folia folia film of the stand to stand	10
		information and produce output after processing? Explain with a suitable diagram.	
	b)	What do you mean by outsourced project?	
		असतो मां सद् गमव	4
	(c)	Briefly describe with a suitable diagram the working of a prototyping model.	6
3.	a)	Describe the COnstructive COst estimation Model (COCOMO) technique	
	1	and the different classes of software development projects.	6
	b)	Mention the estimation of effort and development time given by basic	6
	c)	nodel for different classes of software products.	O
	C)	Functional independence is a key to any good software design. Why?	8
.	a)	Briefly describe the characteristics of a good software requirement	10
		specification document.	10
	b)	How Cohesion is different from coupling? What is opinion about cohesion	
		odpring in the context of software design?	3+3=6
	c)	Differențiate between structured analysis and structured design?	1
		de design;	4

5.	a)	Briefly describe the various types of coupling in decreasing order of severities.	10
	b)	Which model is known as meta model and why?	1+4=5
	c)	Describe the working principle of mixed team structure in a software project.	5
6.	Write short notes on any four of the followings:		5x4=20
	a)	Risk management	3A+ 20
	b)	Delphi cost estimation technique	
	c)	Evolutionary model	
	d)	Context diagram	,
	e)	Functional Cohesion	
	f)	Software Project Management Plan	
	g)	Activity network Kokanar Education	

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