



## Fifth Semester B.E. Degree Examination, Aug./Sept.2020

## **Software Engineering**

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions, selecting at least TWO questions from each part.

PART - A			
1	a.	What is software engineering? What are the key challenges that a software eng	ineering is
		facing?	(05 Marks)
	b.	With a block diagram, explain the different phases of systems engineering process	.(10 Marks)
	c.	Explain why legacy systems may be critical to the operation of a business.	(05 Marks)
2	a.	What are critical systems? List and explain different types of critical systems.	(06 Marks)
	b.	Explain Boehm's spiral model of the software process with a neat diagram.	(08 Marks)
	c.	Describe different phases in the Rational United Process.	(06 Marks)
3	a.	What are non-functional requirements? How are they different from	functional
		requirements? Give examples.	(06 Marks)
	b.	Explain the structure of requirements document.	(06 Marks)
	c.	With a neat diagram, explain the requirement engineering process in detail.	(08 Marks)
4	a.	Define data-flow model. Give data flow diagram for an Insulin pump.	(06 Marks)
	b.	State and explain different management activities.	(08 Marks)
	c.	Explain risk management process with a neat diagram.	(06 Marks)
		PART - B	
5	a.	What are the advantages and disadvantages of object oriented design?	(06 Marks)
	b.	Explain client-server model with example.	(08 Marks)
	c.	Write a note on control styles.	(06 Marks)
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6	a.	Give a brief description of principles of agile methods.	(06 Marks)
	b.	With a neat diagram, explain the system evolution process. MRIT LIBRARY  Explain the activities of re-engineering process.  BANGALORE - 560 037	(08 Marks)
	c.	Explain the activities of re-engineering process.	(06 Marks)
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7	a.	Explain the structures of a software test plan.	(06 Marks) (08 Marks)
	b.	With a neat figure, explain the clean room software development process.	(06 Marks)
	c.	Explain the goals of software testing process.	(UO MIAIKS)
0	8 a. Briefly explain the factors that may influence the decision of selecting staff for the		the project
8	a.		(07 Marks)
	h	team.  Explain the factors affecting software pricing.	(07 Marks)
	b.	Write a note on people capability maturity model	(06 Marks)
	c.	Write a now on people capacitity materity moder	(00 1.201110)

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