

Code No: RT32051





III B. Tech II Semester Regular Examinations, April - 2017 SOFTWARE ENGINEERING

(Computer Science Engineering)

	(Computer Science Engineering)	
Tin	Max. M	arks: 70
	Note: 1. Question Paper consists of two parts (Part-A and Part-B) 2. Answering the question in Part-A is compulsory	
	3. Answer any THREE Questions from Part-B	
	PART –A	
a	Describe the Characteristics of Software.	[4M]
b	Write the distinct steps in requirements engineering process?	[4M]
c	Explain the design steps in transaction mapping.	[4M]
d	Why testing is important with respect to software?	[4M]
e	How do you estimate time required for a software development project?	[3M]
f)	Distinguish between verification and validation.	[3M]
	PART –B	
	Elaborate on evolution of software. Give the comparison of software and software system product	[16M]
a		[8M]
b	Narrate the importance of software specification of requirements.	[8M]
	What is transform mapping? Explain the process with an illustration. Describe its strength and weakness.	[16M]
	Discuss how the testing models may be used together to test a program schedule.	[16M]
	Explain the need for software measures and describe various metrics.	[16M]
a b		[10M] [6M]

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Time: 3 hours





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2. Answering the question in **Part-A** is compulsory

3. Answer any **THREE** Questions from **Part-B**

PART -A

1	a) b) c) d) e) f)	What are the challenges in software?What are the non-functional requirements of software?Explain the design steps of the transform mapping.State the objectives and guidelines for debugging.How do you estimate cost required for a software development project?What are the types of software maintenance?	[4M] [4M] [4M] [4M] [3M] [3M]				
	<u>PART –B</u>						
2		Define software engineering and Give a generic view of Software Engineering.	[16M]				
3		Explain the ways and means for collecting the software requirements and how are they organized and represented?	[16M]				
4		What are the characteristics of a good design? Describe different types of coupling and cohesion. How design evaluation is performed?	[16M]				
5		What is black box testing? Is it necessary to perform this? Explain various test activities.	[16M]				
6		Explain the need for software measures and describe various metrics.	[16M]				
7	a)	Discuss the concept of software maintenance process.	[8M]				
	b)	What is meant by SQA? Discuss in detail SQA activities.	[8M]				

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SET - 3

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(Computer Science Engineering)

Time: 3 hours

Max. Marks: 70

Note: 1. Question Paper consists of two parts (Part-A and Part-B)

2. Answering the question in Part-A is compulsory

3. Answer any **THREE** Questions from **Part-B**

PART -A

1	a)	Describe the Components of Software.	[4M]
	b)	Write the distinct steps in requirements engineering process?	[4M]
	c)	Explain the steps in OOAD.	[4M]
	d)	How to derive a test plan?	[4M]
	e)	How effort is measured? explain	[3M]
	f)	What are the types of reengineering activities?	[3M]
		PART –B	
2		Compare the incremental model and the spiral model.	[16M]
3		Describe various prototyping techniques and object oriented analysis and modeling principles.	[16M]
4		What is transform mapping? Explain the process with an illustration. What is its strength and weakness?	[16M]
5		Explain black box testing methods and its advantages and disadvantages.	[16M]
6		Explain in detail about COCOMO model.	[16M]
7	a)	What is software maintenance? How to control maintenance cost?	[8M]
	b)	What is meant by software quality? Give an overview of software quality factor.	[8M]



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SET - 4

III B. Tech I Semester Regular Examinations, April - 2017

SOFTWARE ENGINEERING

(Computer Science Engineering)

Time: 3 hours

Max. Marks: 70

Note: 1. Question Paper consists of two parts (Part-A and Part-B)

2. Answering the question in **Part-A** is compulsory

3. Answer any THREE Questions from Part-B

PART -A

1	a)	What are the advantages of software over hard ware?	[4M]				
	b)	Distinguish between expected requirements and excited requirements	[4M]				
	c)	Give the comparison of transaction mapping and transform mapping	[4M]				
	d)	State the objectives and guidelines for debugging.	[4M]				
	e)	How do you estimate effort required for a software development project?	[3M]				
	f)	Distinguish between bug and error.	[3M]				
	<u>PART –B</u>						
2	a)	Define software. List and explain about the elements of a software process.	[8M]				
	b)	With suitable illustration explain SPIRAL model.	[8M]				
3		Describe various prototyping techniques and discuss on object oriented analysis and modeling.	[16M]				
4		Explain the importance of user interface design in sale of software.	[16M]				
5		What are the various testing strategies to software testing? Discuss them briefly.	[16M]				
6		Explain the need for software measures and describe various metrics.	[16M]				
7	a)	Discuss the concept of software maintenance process.	[8M]				
	b)	What is meant by SQA? Discuss in detail SQA activities.	[8M]				
