Code No: RT32051 **R13** SET - 1

III B.Tech II Semester Supplementary Examinations, November/December – 2016

SOFTWARE ENGINEERING

(Computer Science and 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**

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PART –A

1	a)	What is Software? Explain.	[3M]
	b)	Write about Data Dictionaries.	[4M]
	c)	What are structure charts? Explain.	[4M]
	d)	Define regression Testing.	[3M]
	e)	Write about Software Configuration Management.	[4M]
	f)	Write about Software Quality Assurance.	[4M]

PART –B

2		Explain the incremental process model with advantages and disadvantages.	[16M]
3		Explain in detail about data oriented Analysis.	[16M]
4		What are the design principles of a good software design? Explain.	[16M]
5		What is testing? Explain the different levels of testing.	[16M]
6	a)	What is effort? What is the need of effort and Project size estimation?	[7M]
	b)	Discuss about the project planning activities.	[9M]
7		Explain in detail about capability maturity model.	[16M]

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Code No: RT32051 **R13** SET - 1

III B. Tech II Semester Regular Examinations, April - 2016
SOFTWARE ENGINEERING
(Computer Science and 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**

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PART –A

1.	a)	What is meant by Software and Software Engineering?	3M
	b)	Write short note on object oriented analysis.	4M
	c)	Explain design methodologies.	4M
	d)	Explain testing fundamentals.	3M
	e)	What are software metrics and measurements?	4M
	f)	Explain briefly about reengineering activities.	4M

PART –B

2.	a)	Explain briefly Software development lifecycle.	8M
	b)	Explain about evaluation of software engineering methodologies.	8M
3.	a)	Write short note on Structured analysis.	8M
	b)	Explain briefly about requirements validation.	8M
4.	a)	Briefly Explain Software design process.	8M
	b)	Write a short on structured design methodology.	8M
5.	a)	Explain code verification.	8M
	b)	Write short note on regression testing.	8M
6.	a)	Briefly explain software configuration management.	8M
	b)	Explain briefly about project size estimation.	8M
7.	a)	What are software quality factors?	8M
	b)	What is software maintenance? Explain in detail.	8M

Code No: RT32051 **R13** SET - 2

III B. Tech II Semester Regular Examinations, April - 2016
SOFTWARE ENGINEERING
(Computer Science and 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**

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PART –A

1.	a)	What is software process? Explain process classification.	3M
	b)	Write short note on requirements specification.	3M
	c)	Explain characteristics of good software design.	4M
	d)	Explain briefly about debugging approaches.	4M
	e)	Briefly explain project planning activity.	4M
	f)	What are the maintenance process models?	4M

PART –B

2.	a)	Explain applicability and advantages of software processes.	8M
	b)	What are the challenges of software engineering?	8M
3.	a)	What are software requirements? How to analysis the requirements?	8M
	b)	Explain briefly about Requirements management.	8M
4.	a)	What are the design principles? Explain in detail.	8M
	b)	Explain about structured design methodology.	8M
5.	a)	Explain about white box testing?	8M
	b)	What are the principles of coding?	8M
6.	a)	What are effort estimation techniques?	8M
	b)	Explain briefly about project management in detail.	8M
7.	a)	Write a short note on capability maturity model.	8M
	b)	Briefly explain software reuse.	8M

Code No: RT32051 **R13** SET - 3

III B. Tech II Semester Regular Examinations, April - 2016
SOFTWARE ENGINEERING
(Computer Science and 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**

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PART –A

1.	a)	Explain briefly about software crisis.	4M
	b)	Write short note on requirement management process.	3M
	c)	What are the design principles of software?	4M
	d)	Explain black box testing.	3M
	e)	Explain briefly about software configuration management.	4M
	f)	What is verification and validation? Explain in detail.	4M

PART –B

2.	a)	Explain Software development process models.	8M
	b)	Define software engineering. What are the challenges of software engineering?	8M
3.	a)	Write short note on data oriented analysis.	8M
	b)	Explain briefly about requirements validation.	8M
4.	a)	Write short note on structured design methodologies.	8M
	b)	Explain the concept of transform versus transaction analysis.	8M
5.	a)	Explain coding documentation.	8M
	b)	Explain about usability testing.	8M
6.	a)	What are essentials in project management?	8M
	b)	Explain briefly about project size estimation.	8M
7.	a)	Explain the software quality assurance.	8M
	b)	What is reengineering? Explain in detail.	8M

Code No: RT32051 **R13** SET - 4

III B. Tech II Semester Regular Examinations April - 2016
SOFTWARE ENGINEERING
(Computer Science and 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**

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PART –A

1.	a)	What is software? What are the development lifecycle phases?	4M
	b)	Explain briefly requirements elicitation.	4M
	c)	Write short note on modular design.	3M
	d)	Explain about code documentation.	3M
	e)	Write short note on effort estimation techniques.	4M
	f)	What are differences between verification and validation?	4M

PART –B

2.	a)	Explain about evaluation of software engineering methodologies.	8M
	b)	What is the use of software development process models?	8M
3.	a)	Explain prototyping analysis.	8M
	b)	Write short note on requirement engineering process.	8M
4.	a)	What are the design methodologies?	8M
	b)	Explain about object oriented analysis and design principle.	8M
5.	a)	What are the differences between black box and white box testing?	8M
	b)	What are the levels of testing? Explain in detail.	8M
6.	a)	What is project management? Explain in detail.	8M
	b)	What are software metrics and measurements?	8M
7.	a)	Explain the CMM model.	8M
	b)	What are the maintenance process models?	8M