Code No: R1622051   **R16**   SET - 1

II B. Tech II Semester Regular Examinations, April - 2018
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. Answer **ALL** the question in **Part-A**
3. Answer any **FOUR** Questions from **Part-B**

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PART –A

1.	a)	What is inception phase? Explain.	(3M)
	b)	What are desirable attributes of a good system analyst? Explain.	(3M)
	c)	Give an overview of SA/SD methodology.	(2M)
	d)	Why design test cases?	(2M)
	e)	What is ISO 9000 certification?	(2M)
	f)	What is the current state of reuse?	(2M)

PART -B

2.	a)	What are specialized process models? Explain in detail.	(7M)
	b)	Explain about the unique nature of WebApps.	(7M)
3.	a)	Discuss in detail about important categories of customer requirements.	(7M)
	b)	Explain about classification of cohesiveness.	(7M)
4.	a)	What are various types of user interface? Explain.	(7M)
	b)	Explain in detail about context diagram.	(7M)
5.	a)	Describe McCabe's cyclomatic complexity metric.	(7M)
	b)	Explain in detail about code review.	(7M)
6.	a)	Discuss about SEI capability maturity model.	(7M)
	b)	What is CASE? Explain CASE environment.	(7M)
7.	a)	Define software maintenance. Explain about software reverse engineering.	(7M)
	b)	What is software reuse? Explain reuse at organizational level.	(7M)

Code No: R1622051   **R16**   SET - 2

II B. Tech II Semester Regular Examinations, April - 2018
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. Answer **ALL** the question in **Part-A**
3. Answer any **FOUR** Questions from **Part-B**
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PART –A

1. a) What is construction phase? Explain.   (3M)
    b) What are techniques for representing complex logic?   (3M)
    c) Explain design review.   (2M)
    d) What is smoke testing?   (2M)
    e) Why get ISO 9000 certification?   (2M)
    f) Explain estimation of maintenance cost.   (2M)

PART -B

2. a) Discuss about evolutionary process models.   (7M)
    b) Explain about the software process in detail.   (7M)

3. a) How to identify and document functional requirements? Explain. (7M)
    b) How to characterize a good software design? Explain.   (7M)

4. a) Write basic concepts of basic interface design.   (7M)
    b) Explain in detail about data flow diagrams with examples.   (7M)

5. a) What is performance testing? Explain in detail.   (7M)
    b) Describe boundary-value analysis.   (7M)

6. a) Explain about reliability metrics of software products.   (7M)
    b) Describe CASE support in software life cycle.   (7M)

7. a) Explain in detail about software reverse engineering.   (7M)
    b) What are approaches of reuse? Explain.   (7M)

1 of 1

Code No: R1622051   **R16**   SET - 3

II B. Tech II Semester Regular Examinations, April - 2018
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. Answer **ALL** the question in **Part-A**
3. Answer any **FOUR** Questions from **Part-B**

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PART –A

1.	a)	What is transaction phase? Explain.	(3M)
	b)	What are attributes of bad SRS documents?	(3M)
	c)	What are various types of widgets? Explain.	(2M)
	d)	Define clean room testing.	(2M)
	e)	What are benefits of CASE?	(2M)
	f)	What are characteristics of software evolution? Explain.	(2M)

PART -B

2.	a)	Write a template for describing a process pattern.	(7M)
	b)	What are general principles of software engineering? Explain.	(7M)
3.	a)	Explain in detail about formal system specification.	(7M)
	b)	Discuss about object oriented design.	(7M)
4.	a)	What are fundamentals of component-based GUI? Explain.	(7M)
	b)	Explain about level 1 DFD with example.	(7M)
5.	a)	Discuss about software documentation.	(7M)
	b)	Write basic concepts of white-box testing.	(7M)
6.	a)	What are characteristics of CASE tools? Explain.	(7M)
	b)	Explain about software quality management system.	(7M)
7.	a)	What can be reused? What are basic issues in any reuse program?	(7M)
	b)	What are software maintenance process models? Explain.	(7M)

1 of 1

Code No: R1622051   **R16**   SET - 4

II B. Tech II Semester Regular Examinations, April - 2018
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. Answer **ALL** the question in **Part-A**
3. Answer any **FOUR** Questions from **Part-B**

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-B)

PART –A

1.	a)	What is elaboration phase? Explain.	(3M)
	b)	Explain classification of coupling.	(3M)
	c)	Discuss about detailed design.	(2M)
	d)	What is a suitable unit for testing object-oriented programs?	(2M)
	e)	Write steps in statistical testing.	(2M)
	f)	Define software maintenance.	(2M)

PART -B

2.	a)	Explain about personal and team process models.	(7M)
	b)	What is software? Explain about software myths in detail.	(7M)
3.	a)	Explain about organization of SRS document.	(7M)
	b)	Give an overview of the design process.	(7M)
4.	a)	Discuss about menu-based interface.	(7M)
	b)	Explain in detail about transformation of a DFD model into structure chart.	(7M)
5.	a)	Discuss in detail about black-box testing.	(7M)
	b)	What are program analysis tools? Explain.	(7M)
6.	a)	Explain about personal software process in detail.	(7M)
	b)	Briefly explain about computer aided software engineering.	(7M)
7.	a)	What are characteristics of software maintenance? Explain.	(7M)
	b)	Explain about reuse at organizational level.	(7M)

1 of 1