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

III B. Tech II Semester Supplementary Examinations, November - 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**

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PART –A

1	a)	Explain dependency relation in the context of class diagram.	[3M]
	b)	Describe the phases of SDLC.	[3M]
	c)	Explain abstraction in the context of design concepts.	[4M]
	d)	Why the documentation is given importance in software development?	[4M]
	e)	List out various software metrics available for coding.	[4M]
	f)	List out Software Quality Assurance activities.	[4M]

PART -B

2	a)	Explain agility in the context of software engineering.	[4M]
	b)	Discuss Waterfall model with suitable diagram. Give its merits and demerits.	[8M]
	c)	Give the advantage of using UML and relate UML with software process model.	[4M]
3	a)	Explain how to include packages in class diagrams.	[4M]
	b)	How the activity diagrams are useful in eliciting the requirements of software system?	[8M]
	c)	Give the measures to validate the requirements of software system.	[4M]
4	a)	Describe the process of Translating requirements into design model with a neat diagram.	[8M]
	b)	Define design. Discuss the characteristics of good design.	[8M]
5	a)	Write the steps to calculate cyclometric complexity and illustrate with an example.	[8M]
	b)	Explain the principles of testing software system.	[8M]
6	a)	How the improper project planning affects software system?	[8M]
	b)	Explain software configuration management in detail. Give various roles and responsibilities in it.	[8M]
7	a)	Illustrate Capability Maturity Model with suitable diagram. Discuss its role in SQA	[8M]
	b)	Write and explain the metrics for software maintenance.	[8M]

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