Reg. No.

## Question Paper Code : 66083

## M.E. DEGREE EXAMINATION, DECEMBER 2015/JANUARY 2016

Elective

**Computer Science and Engineering** 

**CP7007 : SOFTWARE REQUIREMENTS ENGINEERING** 

(Common to M.E. Computer Science and Engineering

(with Specialization in Networks))

(Regulations : 2013)

**Time : Three Hours** 

## Maximum: 100 Marks

25 60

Answer ALL questions. PART – A  $(10 \times 2 = 20 \text{ Marks})$ 

1. Define the term : Requirements Engineering.

2. What is System Engineering ?

3. How will you collect raw requirements from the customers ?

4. Define the term : Software Requirements Specification (SRS).

5. What are Quality Requirements?

6. What is meant by Technical Feasibility?

7. What is Requirements Consistency ?

8. What is Usability Engineering?

9. Name few Requirements Management Tools used in IT industry.

10. What is Requirements Metrics?

		$PART - B (5 \times 13 = 65 Marks)$	
11.	(a)	What are functional and Non-functional Requirements ? Give Examples.	(13)
		OR	~
	(b)	How will you verify and validate requirements in a software project ? Illustrate	e
		with a neat diagram ?	(13)
12.	(a)	Explain the steps involved in requirements Elicitation process.	(13)
	(b)	How is brainstorming used during requirements engineering process ?	(13)
13.	(a)	With a neat diagram, Explain the significance of Business Use Case Diagram. OR	(13)
	(b)	What is Business Process Modeling ? How it reduces complexity of business	5
		processes ?	(13)
14.	(a)	How are Quality Attributes related to Software Requirements Engineering ?	(13)
		OR	
	(b)	How will you develop and document quality attributes of the software system to	)
		be implemented ?	(13)
15.	(a)	What is Requirements Traceability ? How is Requirements Traceability Matrix	L
		(RTM) used in Requirements Engineering ?	(13)
		OR	
	(b)	How will you define the scope of the software project ? Give an example	;
		choosing an application such as Banking or Insurance.	(13)
		$PART - C (1 \times 15 = 15 Marks)$	
16.	(a)	How will you use Class Diagram and Activity Diagram to analyze System.	
		Requirements ? Illustrate with a neat diagram.	(15)
		OR Support of the second secon	
	(b)	How will you extract performance requirements and security requirements from the Software Requirements Specification (SRS) documents ? Give examples.	

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