

Code: 19CS4501C

**III B.Tech - I Semester – Regular Examinations  
JANUARY 2022**

**SOFTWARE REQUIREMENTS MANAGEMENT  
(COMPUTER SCIENCE AND ENGINEERING)**

Duration: 3 hours

Max. Marks: 70

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- Note: 1. This question paper contains two Parts A and B.  
2. Part-A contains 5 short answer questions. Each Question carries 2 Marks.  
3. Part-B contains 5 essay questions with an internal choice from each unit. Each question carries 12 marks.  
4. All parts of Question paper must be answered in one place
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**PART – A**

1. a) Define requirement specification.
- b) Define Requirement's elicitation.
- c) Describe natural language requirements in brief.
- d) Write the importance of function point analysis.
- e) List out estimation factors.

**PART – B**

**UNIT – I**

2. a) Summarize a good requirement engineering process 6 M
- b) Discuss the role of system stakeholders in requirement process. 6 M

OR

3. a) Distinguish between functional and non-functional requirements. 6 M
- b) Explain Requirements Document. 6 M

## UNIT – II

4. a) Describe the Problems in Requirements Elicitation. 6 M  
b) Explain the collection of requirements from multiple Viewpoints use scenarios. 6 M

OR

- a) Summarize Current Elicitation Techniques. 6 M  
5. b) Discuss the usage of business concerns to drive requirements elicitation. 6 M

## UNIT-III

6. a) Discuss the process of Specifying requirements quantitatively. 6 M  
b) Explain change management policies. 6 M

OR

7. a) Identify and Manage the Software Requirements Volatility. 6 M  
b) Explain about record rejected requirements. 6 M

## UNIT – IV

8. a) Describe the full function points with an example. 6 M  
b) Discuss size-based software estimation method. 6 M

OR

9. a) Compute the Unadjusted Function Points with examples. 6 M  
b) Explain Lines of Code method for Project size estimation. 6 M

## UNIT – V

10. a) Explain software cost estimation factors. 6 M  
b) Analyze Putnam estimation model with an example. 6 M

OR

11. a) Describe COCOMO II model. 6 M  
b) Explain features of requirements management tools. 6 M