



**B.E DEGREE EXAMINATIONS: MAY 2017**

(Regulation 2014)

Sixth Semester

**COMPUTER SCIENCE AND ENGINEERING**

U14CST603: Software Engineering

**COURSE OUTCOMES**

**CO1:** Outline the features of different lifecycle models

**CO2:** Explain the principles involved in gathering and validating software requirements

**CO3:** Make use of suitable models through analysis of requirements and arrive at an appropriate software design

**CO4:** Appreciate the quality assurance procedures during software development

**CO5:** Explain software project management and software maintenance practices

**Time: Three Hours**

**Maximum Marks: 100**

**Answer all the Questions:-**

**PART A (10 x 1 = 10 Marks)**

1. What is the appropriate pairing of items in the two columns listing various activities CO1 [K<sub>2</sub>] encountered in a software life cycle?

List I		List II	
A. Requirements Capture		i. Module Development and Integration	
B. Design		ii. Domain Analysis	
C. Implementation		iii. Structural and Behavioral Modeling	
D. Maintenance		iv. Performance Tuning	

- |    | A   | B   | C   | D  |
|----|-----|-----|-----|----|
| a) | ii  | i   | iii | iv |
| b) | iii | iv  | ii  | i  |
| c) | ii  | iii | i   | iv |
| d) | iii | i   | ii  | iv |

2. Match the following:

CO1 [K<sub>3</sub>]

List I	List II
A. Waterfall model	i. Specifications can be developed incrementally
B. Evolutionary model	ii. Requirements compromises are inevitable
C. Component-based software engineering	iii. Explicit recognition of risk
D. Spiral development	iv. Inflexible partitioning of the project into stages

- a) A-i, B-ii, C-iii D- iv      b) A-iv, B-i, C-ii D- iii  
c) A-iv, B-ii, C-i D- iii      d) A-iii, B-i, C-ii D- iv

3. Which one of the following is TRUE?

CO2 [K<sub>4</sub>]

- a) The requirements document also describes how the requirements that are listed in the document are implemented efficiently.      b) Consistency and completeness of functional requirements are always achieved in practice  
c) Prototyping is a method of requirements validation.      d) Requirements review is carried out to find the errors in system design

4. Which one of the following is NOT desired in a good Software Requirement Specifications (SRS) document?

CO2 [K<sub>1</sub>]

- a) Functional Requirements      b) Non-Functional Requirements  
c) Goals of Implementation      d) Algorithms for Software Implementation

5. Aggregation represents \_\_\_\_\_ .

CO3 [K<sub>2</sub>]

- a) is\_a relationship      b) part\_of relationship  
c) composed\_of relationship      d) none of above

6. A software organization has been assessed at SEI CMM Level 4. Which of the following does the organization need to practice beside Process Change Management and Technology Change Management in order to achieve Level 5?

CO3 [K<sub>2</sub>]

- a) Defect Detection      b) Defect Prevention  
c) Defect Isolation      d) Defect Propagation



