

B.Tech III Year I Semester (R13) Supplementary Examinations June 2017

**SOFTWARE ENGINEERING**

(Common to CSE and IT)

Time: 3 hours

Max. Marks: 70

**PART – A**

(Compulsory Question)

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- 1 Answer the following: (10 X 02 = 20 Marks)
- List the types of software myths.
  - Explain process assessment and improvement.
  - Explain functional requirements.
  - Design class hierarchy for library by using inheritance model.
  - Write short note on cohesion.
  - Compare verification and validation.
  - What is meant by COCOMO model?
  - Define risk management.
  - Write short note on regression testing.
  - What is a component? Explain it.

**PART – B**

(Answer all five units, 5 X 10 = 50 Marks)

**UNIT – I**

- 2 (a) Explain in detail the Capability Maturity Model Integration (CMMI).  
 (b) Explain the purpose of process assessment.

**OR**

- 3 (a) Describe with the help of the diagram, explain the concurrent development model.  
 (b) Explain unified process? Elaborate on the unified process work product.

**UNIT – II**

- 4 (a) Describe the process of Scenario based modeling.  
 (b) Describe four types of non functional requirements that may be placed on system. Give examples of each of these type of requirements.

**OR**

- 5 (a) Elaborate the process of eliciting requirements of a project.  
 (b) Explain how requirements are elicited and validated in software products.

**UNIT – III**

- 6 (a) Explain software design? Explain data flow oriented design.  
 (b) Explain the guidelines of component level design.

**OR**

- 7 (a) Explain the design concepts in the software engineering.  
 (b) Discuss architectural styles and designs.

**UNIT – IV**

- 8 (a) Describe briefly about the golden rules for the user interface design.  
 (b) Explain how the design is evaluated.

**OR**

- 9 (a) Compare black box testing with white box testing.  
 (b) Explain about debugging.

**UNIT – V**

- 10 Explain risk management and principles of it.

**OR**

- 11 Explain briefly about COCOMO - A heuristic estimation technique.

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