

Code: 13A05504

B.Tech III Year I Semester (R13) Supplementary Examinations June 2016

**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)
- (a) What is software process? Give its importance.
  - (b) What are the advantages of prototype model?
  - (c) State characteristics of SRS document.
  - (d) Discuss about class based modeling.
  - (e) Expand design concepts.
  - (f) Describe the roll of software architecture in project development.
  - (g) Write golden rules for design.
  - (h) List out the outcome of unit testing.
  - (i) How scheduling can be done in project management?
  - (j) Illustrate the characteristics of software maintenance.

**PART – B**

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

**UNIT – I**

- 2 (a) Discuss about prototype model and state advantages of it.  
(b) What are the umbrella activities of a software process?

**OR**

- 3 (a) Which process model leads to software reuse? Justify.  
(b) Illustrate the functioning of Unified process.

**UNIT – II**

- 4 (a) Elaborate the process of eliciting requirements of a project.  
(b) Describe the process of Scenario based modeling.

**OR**

- 5 (a) State the challenges involved in software requirements elicitation.  
(b) Explain data modeling concepts with an example.

**UNIT – III**

- 6 Describe software design process in detail.

**OR**

- 7 What is software architecture? Expand the role of software architectural design.

**UNIT – IV**

- 8 (a) Write short notes on User Interface Design  
(b) Explain the types of Black Box Testing in detail

**OR**

- 9 (a) What is the objective of unit testing? Explain.  
(b) Discuss about all possible levels of software testing.

**UNIT – V**

- 10 (a) Explain how Cocomo project estimation techniques will work.  
(b) Write about types of software maintenance.

**OR**

- 11 Explain the processes of software reverse engineering with neat diagram.

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