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INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

B.Tech V Semester End Examinations (Supplementary) - January, 2019

Regulation: IARE – R16

SOFTWARE ENGINEERING

Time: 3 Hours

(CSE)

Max Marks: 70

Answer ONE Question from each Unit

All Questions Carry Equal Marks

All parts of the question must be answered in one place only

UNIT – I

- (a) List the prescriptive software development process models. Explain the incremental process model with neat diagram. [7M]
(b) Define Constructive cost model. Explain in detail the COCOMO II software project cost estimation model. [7M]
- (a) What is the relationship between Lines Of Code(LOC) and Function Point(FP) metrics? [7M]
(b) What are the drawbacks of Rapid Action Development(RAD) model? [7M]

UNIT – II

- (a) Discuss the structure of software requirements document. [7M]
(b) Explain about functional and non functional requirements. [7M]
- (a) Sketch the spiral view of the requirement engineering process. Explain the same. [7M]
(b) Describe the difficulty in eliciting requirements from system stakeholders. [7M]

UNIT – III

- (a) Explain the architectural design elements and interface design elements in design model. [7M]
(b) Discuss the data flow architecture and call & return architecture with necessary diagram. [7M]
- (a) What is design mode? Describe the component level design in detail. [7M]
(b) Explain about refining the architectural design process in detail. [7M]

UNIT – IV

- (a) Explain the Condition Testing, Smoke testing and Equivalence partitioning. [7M]
(b) Describe the following: [7M]
 - Top Down integration
 - Loop testing
 - Graph-Based Testing Methods

8. (a) Discuss Recovery and Security Testing, Deployment Testing, Alpha and Beta testing with examples. [7M]
(b) Define unit testing. Distinguish between white box testing and black box testing. [7M]

UNIT – V

9. (a) Explain about different types of software estimation techniques. [7M]
(b) Define risk. What is risk identification? Explain in detail. [7M]
10. (a) What is RFP risk management? Explain about different types of software risks. [7M]
(b) Write about Function based metrics and Earned value analysis. [7M]

