

F-331

B. C. A. (Fifth Semester) Examination, Dec. 2014

(Course : 2010-11)

(For Regular / ATKT / Ex Students)

SOFTWARE ENGINEERING

Time Allowed : Three hours

Maximum Marks : 50

Note : Attempt all the five questions. One question from each unit is compulsory. All questions carry equal marks.

Unit-I

1. What do you mean by Software Reliability? Identify the reliability metrics which can be used to quantify the reliability of software products.

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PTO

Or

Define software product. Mention any four characteristics of software process models. State Boehm spiral model. What are the advantages and disadvantages of spiral model?

Unit-II

2. What is Information Engineering? Explain. Compare the requirement analysis using structured analysis model and object oriented analysis model.

Or

What do you understand by requirement elicitation? Discuss any two techniques in detail? Explain how the requirement process converts the client needs to validated Software Requirement Specification (SRS).

Unit-III

3. What do you understand by User Interface Design? What is function oriented design? Discuss.

Or

What are the major steps involved in effective modular design? What is design heuristics? Discuss.

Unit-IV

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4. What is software testing? What are Test Principles? What are the attributes of a "good" test? Discuss. Explain Black-Box and White-Box testing.

Or

Describe Software Testing Strategies. What is the difference between verification and validation. Discuss with suitable examples.

Unit-V

5. Discuss balanced scorecard approach for performance management.

Or

Which factors should you consider for evaluation of commercial ERP software? Why reengineering of various business processes is important for ERP implementation?