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BCACAC 311

Credit Based Fifth Semester B.C.A. Degree Examination, Oct./Nov. 2014
SOFTWARE ENGINEERING
(New Syllabus) (2014-15 Batch)

Time : 3 Hours

Max. Marks : 100

Note : Answer any ten questions from Part – A and one full question from each Unit of Part – B.

PART – A

1. a) State the objective of Software Engineering. (10×2=20)
b) Define Reliability and Portability of Software.
c) What is a Module ?
d) List common errors that occur in DFDs.
e) Give any two symbols used in DFD and also give their purpose.
f) What is Data Abstraction ?
g) Mention the components of SRS.
h) What is Data Dictionary ?
i) What do you mean by Divide and Conquer ?
j) Define Fault and Failure.
k) Define Testing.
l) Mention any two important features of Test Director.

PART – B

Unit – I

2. a) Explain the Software problem.
b) Explain the Waterfall model. Write its advantages and disadvantages.
c) Explain the Change Control in SCM. (6+8+6)
3. a) Explain iterative enhancement model with a neat diagram.
b) Explain any two characteristics of Software Process.
c) Write a note on Software Engineering Problem.
d) Write a note on Software Metrics, Measurement and Models. (5+4+7+4)

P.T.O.



Unit – II

4. a) Explain the characteristics of SRS.
b) What is Coupling ? Explain the various factors that affect coupling.
c) Explain steps in SDM strategy. (8+5+7)
5. a) Explain DFD with an example.
b) Explain the structure Chart.
c) Define Cohesion ? Explain different types of Cohesion.
d) Write a note on verification in the Requirement Analysis. (5+5+7+3)

Unit – III

6. a) Explain programming practices used in Coding.
b) Explain Information Hiding.
c) Explain the verification methods of Detailed design. (8+4+8)
7. a) Write a note on Logic/Algorithm design.
b) Explain Symbolic Execution and Execution Tree.
c) Explain Structured Programming. (8+8+4)

Unit – IV

8. a) Explain the following :
i) Equivalence Class Partitioning
ii) Boundary Value Analysis.
b) Write a note on Adaptive and Corrective maintenance.
c) Explain SQA, Robot and LordRunner. (8+6+6)
9. a) Explain the Cause-Effect graph with a neat diagram.
b) Explain Preventive and Perfective maintenance.
c) Explain Dataflow based testing.
d) Explain Silk Test. (6+6+5+3)
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