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M 9771

Reg. No. :

Name :

V Semester B.Sc. Degree (CCSS – Reg./Supple./Imp.)
Examination, November 2015
CORE COURSE IN COMPUTER SCIENCE
5B08 CSC : Software Engineering

Time : 3 Hours

Max. Weightage : 21

SECTION – A

Answer all questions. Weightage for a bunch of 4 questions is 1.

1. SADT stands for _____
2. A _____ describes a problem, which occurs over and over again in our environment and then describes a solution to that problem.
3. _____ testing is performed to test the individual units of a software.
4. _____ is a black box test design technique where test cases are designed based on boundary values. (W = 1)
5. _____ is defined as the application of a systematic, disciplined, quatifiable approach to the development, operation and maintenance of software.
6. A waterfall model is also called _____
7. A graphic representation of the flow of data through business functions or processes is _____
8. The _____ phase of waterfall model involves interaction with users for a clear understanding of the requirements. (W = 1)

SECTION – B

Answer any five questions. Weightage 1 for each.

9. What is Modularity ?
10. What is software configuration management ?
11. What are the various steps of requirement Engineering process ?

P.T.O.



12. Explain the use of data dictionary.
13. What is the IEEE definition to software design ?
14. What is difference between verification and validation ?
15. Define acceptance testing.
16. Define software.

(5×1=5)

SECTION – C

Answer **any five** questions. Weightage **2** for **each**.

17. Explain a process, a project and a product.
18. What are the basic characteristics required to select the life cycle model ?
19. What is cyclomatic complexity ? How it can be calculated ?
20. Explain mutation testing.
21. What are the principles of software design ?
22. Explain Technical and Operational Feasibility.
23. Define software engineering and what are the layers in it.
24. What is a software requirement ? and what are the types of requirements ?

(5×2=10)

SECTION – D

Answer **any one** question. Weightage **4** for **each**.

25. Explain the object-oriented analysis in detail.
26. Explain the following :
 - a) Generating Graph Matrix
 - b) Functional Testing
 - c) Equivalence Class Testing.

(1×4=4)