



# DON BOSCO COLLEGE

(Affiliated to the University of Calicut)

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## SECOND INTERNAL EXAMINATION OCTOBER 2015 FIFTH SEMESTER B.Sc. CS CS5B11: PRINCIPLES OF SOFTWARE ENGINEERING

Time: 3 hours

Total weightage:30

### *Part-A*

*Answer all questions*

1. A \_\_\_\_\_ diagram shows both structural and behavioral aspects explicitly
2. COCOMO stands for \_\_\_\_\_
3. Another name for clear box testing is \_\_\_\_\_
4. The outcome of a requirement specification is called \_\_\_\_\_
5. Level 0 DFD is also called \_\_\_\_\_ diagram.
6. Alpha testing is done by \_\_\_\_\_
  - a. customer
  - b. developer
  - c. tester
  - d. all of the above
7. The set of test cases is called \_\_\_\_\_
8. Cyclomatic complexity is defined by \_\_\_\_\_

(8\* 1/2 = 4 weightage)

### *Part-B*

*Answer all questions*

9. Explain the characteristics of waterfall model.
10. What is an SRS?
11. What is regression testing?
12. What is software engineering?

(4\*1=4 weightage)

### *Part - C*

*Answer any five*

13. Discuss the prototyping model.
14. Explain reverse engineering.
15. What are the three most common relationships in ER model?
16. State the difference between quality assurance and quality control.
17. Explain difference between verification and validation.
18. State the difference between DFD and flowchart.

(5\*2=10 weightage)



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## *Part- D*

*Answer any five*

*(Each carries 8 mark)*

19. Write a note on test planning.
20. Explain the cost estimation techniques of software in detail
21. Describe white-box testing in detail.
22. Define UML diagram. Explain different types with example.
23. Explain User interface. Describe its classification.

**(3\*4 = 12 weightage)**

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