

C 60099

(Pages : 2)

Name.....

Reg. No.....

**SIXTH SEMESTER BCA DEGREE EXAMINATION, MARCH 2019**

(CUCBCSS)

B.C.A.

BCA 6B 14—SOFTWARE ENGINEERING

Time : Three Hours

Maximum : 80 Marks

**Part A**

*Answer all questions.*

*Each question carries 1 mark.*

1. Simplifying a problem by omitting unnecessary details is known as \_\_\_\_\_.
2. UML stands for \_\_\_\_\_.
3. The \_\_\_\_\_ is the final outcome of the requirements analysis and specification phase.
4. The relationship of data element in a module is called \_\_\_\_\_.
5. Level 0 DFD is similar to \_\_\_\_\_.
6. \_\_\_\_\_ diagram shows interaction among objects as a two dimensional chart.
7. A development style based on widgets is called \_\_\_\_\_.
8. Beta testing is carried out by \_\_\_\_\_.
9. Software mistakes found during coding are known as \_\_\_\_\_.
10. \_\_\_\_\_ measure the average time taken to track the errors causing the failure and to fix them.

(10 × 1 = 10 marks)

**Part B**

*Answer all questions.*

*Each question carries 2 marks.*

11. State three important advantages of structured programming.
12. What are the features of function oriented design approach ?
13. Write short note on context diagram.
14. What do you mean by modeless interface ?
15. Discuss the term software reverse engineering.

(5 × 2 = 10 marks)

**Turn over**

**Part C**

*Answer any five questions.*

*Each question carries 4 marks.*

16. What is data structure oriented software design methodology ? How it differs from the data flow oriented design methodology ?
17. Explain any *two* empirical estimation techniques.
18. What is coupling ? Explain the various types of coupling.
19. Discuss common mistakes committed in use case model development.
20. What is window management system ? Explain its components.
21. Distinguish between graphical user interface and Text based user interface.
22. Write the procedure to get ISO 9000 certification.
23. Identify the stages through which a reuse domain progress

(5 × 4 = 20 marks)

**Part D**

*Answer any five questions.*

*Each question carries 8 marks.*

24. What is project planning ? Explain various project estimation techniques.
25. What are the different categories of users of SRS document and what are the different categories of customer requirement ?
26. What is a formal technique ? Explain operational semantics of a formal method.
27. Explain requirement gathering techniques.
28. What are design patterns ? Explain common design patterns.
29. Explain component based GUI development.
30. Explain different approaches used in black box and white box testing.
31. What do you mean by software reliability ? Explain different reliability metrics.

(5 × 8 = 40 marks)