

C 60099

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BCA

SIXTH SEMESTER B.Sc. 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)