

**16U667**

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Name: .....

Reg. No.....

**SIXTH SEMESTER B.C.A. DEGREE EXAMINATION, APRIL 2019**

(Regular/Supplementary/Improvement)

(CUCBCSS - UG)

**CC15U BCA6 B14 - SOFTWARE ENGINEERING**

Computer Application – Core Course

(2015 Admission onwards)

Time: Three Hours

Maximum: 80 Marks

**PART A**

Answer *all* questions. Each question carries 1 mark.

1. Write the full form for SDLC
2. \_\_\_\_\_ is the simplest among all metrics available to measure project size.
3. \_\_\_\_\_ Document is the final outcome of the requirement analysis and specification phase
4. A design is said to be highly modular if modules have high \_\_\_\_\_ and \_\_\_\_\_ low .
5. \_\_\_\_\_ is a graphical model that shows different functions and data interchange among those functions.
6. Write the full form for ADT
7. \_\_\_\_\_ is used to model the state changes of an object.
8. The process of collecting information about software requirements from different individuals such as users and stakeholders is known as \_\_\_\_\_
9. Which of the following is a black-box testing approach?
  - (i) Path testing
  - (ii) Boundary value testing
  - (iii) Mutation testing
  - (iv) Branch testing
10. \_\_\_\_\_ is the most expensive phase of the software life cycle.

**(10 × 1 = 10 Marks)**

**PART B**

Answer *all* questions. Each question carries 2 marks.

11. Explain feasibility study.
12. Name Project estimation techniques.
13. What are characteristics of good user interface?
14. What are the main advantages of using CASE tools?

15. What are testing activities? **(5 x 2 =10 Marks)**

**PART C**

Answer any *five* questions. Each question carries 4 marks.

16. Explain iterative waterfall model.
17. Distinguish between GUI and text based UI.
18. Explain coupling and cohesion.
19. What are different views for UML diagram?
20. What are testing activities?
21. Draw architecture of CASE environment.
22. Explain use case model.
23. What are basic issues in any reuse program?

**(5 x 4 = 20 Marks)**

**PART D**

Answer any *five* questions. Each question carries 8 marks.

24. Explain Project estimation techniques.
25. Briefly explain different types of user interfaces.
26. What are class diagrams? Draw one example.
27. What are the different categories of Risk Management? How can risk be effectively identified by a project manager?
28. Define SRS. Explain about the document in detail.
29. Explain ISO 9000 certification and discuss the relative merits with SEI CMM based quality assessment.
30. What are three stages of Testing?
31. Explain the different approaches to software design with example.

**(5 x 8 = 40 Marks)**

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