



K23U 1075

Reg. No. : .....

Name : .....

IV Semester B.C.A. Degree (CBCSS – OBE – Regular/ Supplementary/  
Improvement) Examination, April 2023  
(2019 Admission Onwards)

Core Course

4B08BCA : SOFTWARE ENGINEERING

Time : 3 Hours

Max. Marks : 40

PART – A

Short answer. Answer **all** questions.

(6×1=6)

1. What is meant by SRS ?
2. In \_\_\_\_\_ testing small modules are tested in isolation.
3. Risk management is an important feature of \_\_\_\_\_ model.
4. Actors are represented as stick figure in \_\_\_\_\_ diagram.
5. In \_\_\_\_\_ testing we ignore the internal structure of the code.
6. Explain alpha testing.

PART – B

Short essay. Answer **any 6** questions.

(6×2=12)

7. State the difference between a program and a software.
8. Explain waterfall model.
9. What is a prototype ?
10. What is meant by context diagram ?
11. List out any 4 design notations.

P.T.O.



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12. What is an Object ?

13. What is a test case ?

14. What is the main difference between black box testing and white box testing ?

PART - C

Essay. Answer **any 4** questions (4×3=12)

15. Discuss the difference between waterfall model and Increment process model.

16. What is meant by requirement elicitation? Discuss any 1 elicitation techniques in detail.

17. Explain various steps of requirement analysis.

18. Explain the importance and objectives of design phase.

19. What are the various symbols used in DFD. Explain Level0, Level1 and Level2 diagrams and its importance ?

20. Briefly explain boundary value analysis

PART - D

Long essay. Answer **any 2** questions. (2×5=10)

21. Discuss the characteristics of Software comparing it with that of the hardware.

22. Describe (a) Prototyping model and (b) RAD model.

23. Write notes on (a) use case diagram and (b) activity diagram.

24. What is structural testing ? Write notes on flow graph, DD path graph and Cyclomatic Complexity.





**K22U 1510**

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**PART – A  
(Short Answer)**

Answer **all** questions : **(6×1=6)**

1. What do you mean by Software ?
2. \_\_\_\_\_ document is the final outcome of the requirements analysis and specification phase.
3. The GUI part of software system is almost always developed using \_\_\_\_\_ model.
4. ADT stands for \_\_\_\_\_
5. RAD stands for \_\_\_\_\_
6. DFD stands for \_\_\_\_\_

**PART – B  
(Short Essay)**

Answer **any 6** questions : **(6×2=12)**

7. What is functional independence of modules ?
8. What is the main objective of code walk-through ?
9. What do you mean by testing ?
10. Explain control flow graph.
11. What do you mean by feasibility study ?

P.T.O.

**K22U 1510**



12. What do you mean by multiple inheritance ?
13. What do you mean by structured programming ?
14. How is the SRS document validated ?

**PART – C**  
**(Essay)**

Answer **any 4** questions :

**(4×3=12)**

15. What is the use of software documentation ?
16. Explain importance of standard style of coding.
17. Explain SDLC.
18. Explain main two approaches in software design.
19. What is the role of requirement analysis in software design ?
20. Mention the characteristics of a good software design.

**PART – D**  
**(Long Essay)**

Answer **any 2** questions :

**(2×5=10)**

21. Levels of software product testing.
  22. Explain different approaches of software design.
  23. Characteristics of a good SRS document.
  24. Discuss the life cycle of classical waterfall model.
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**K21U 1074**

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**Time : 3 Hours**

**Max. Marks : 40**

**PART – A**

**(Short Answer)**

**Answer all questions.**

**(6×1=6)**

1. SDLC stands for
2. What is Slack Time ?
3. Explain Unit Testing.
4. SRS document is formal specification of system. True or False.
5. UML stands for
6. RAD stands for

**PART – B**

**(Short Essay)**

**Answer any 6 questions.**

**(6×2=12)**

7. What do you mean by Software engineering ?
8. Differentiate Programs and Products.
9. Discuss the importance of feasibility study in software development.
10. Explain Cohesion and Coupling.
11. Explain Multiple Inheritance.

**P.T.O.**



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12. What is code inspection ?
13. Explain Alpha and beta testing.
14. What is the need of validation ?

PART – C

(Essay)

Answer any 4 questions.

(4×3=12)

15. Explain different types of Software Development Projects.
16. What is requirement analysis ?
17. Explain main classifications of design activities.
18. Explain different approaches of software design.
19. Advantages of object oriented design.
20. Differentiate verification and validation.

PART – D

(Long Essay)

Answer any 2 questions.

(2×5=10)

21. Discuss different software life cycle models.
22. Explain different types of testing.
23. Explain importance and objectives of software design.
24. Discuss various steps of requirement analysis.