



K26U 1129

Reg. No. : .....

Name : .....

IV Semester B.C.A. Degree (C.B.C.S.S. – O.B.E. – Supplementary/  
Improvement) Examination, April 2026  
(2020 to 2023 Admissions)  
Core Course  
4B08BCA : SOFTWARE ENGINEERING

Time : 3 Hours

Max. Marks : 40

PART – A

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

1. Which document act as a contract between the customer and the developer ?
2. \_\_\_\_\_ phase transform the requirements into a structure that is suitable for implementation.
3. \_\_\_\_\_ life cycle model incorporates the project risk.
4. \_\_\_\_\_ is repository to store information about all data items defined in DFD.
5. \_\_\_\_\_ is the measure of the degree of interdependence between modules.
6. Explain beta testing.

PART – B

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

7. How a software differs from a program ?
8. List out the problems of a water fall model.
9. Discuss the requirement elicitation by facilitated application specification technique.

P.T.O.



10. Differentiate the uses of drawing and ER diagram and DFD.
11. Explain the terms cohesion and coupling.
12. Which document is produced on the completion of design phase ?
13. What is a test case ?
14. Differentiate unit testing and integration testing.

PART – C

**Essay : Answer any 4 Questions.**

**(4×3=12)**

15. Discuss the advantages of prototyping model.
16. Explain the importance of conducting feasibility study.
17. What are the components of a Use case diagram ?
18. What is meant by a SRS document ?
19. What are the importance of conducting customer reviews ?
20. Explain Cyclomatic Complexity.

PART – D

**Long Essay : Answer any 2 Questions.**

**(2×5=10)**

21. Explain Spiral model with a neat diagram.
  22. Draw three levels of DFD for automation of a grocery shop management system.
  23. Describe bottom-up approach, top-down approach and hybrid approach of system design.
  24. What is meant by black box testing ? Explain any two black box testing techniques in detail.
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