



K24U 0831

Reg. No. :

Name :

IV Semester B.C.A. Degree (CBCSS – OBE – Regular / Supplementary/
Improvement) Examination, April 2024
(2019 to 2022 Admissions)

Core Course
4B08BCA : SOFTWARE ENGINEERING

Time : 3 Hours

Max. Marks : 40

PART – A
(Short Answer)

Answer all questions.

(6×1=6)

1. Define software.
2. What is meant by concept exploration in software development ?
3. What is the significance of requirement engineering activity ?
4. Differentiate between object oriented design and function oriented design.
5. What is meant by aggregation ?
6. Define the term use case.

PART – B
(Short Essay)

Answer any 6 questions.

(6×2=12)

7. Define incremental software model.
8. What does win-win mean in the context of negotiation during the requirements engineering activity ?
9. What are the basic guidelines for conducting meeting of requirements gathering ?
10. Explain the consequences of inconsistencies in the software requirements specification.

P.T.O.



- 11. Explain the design phase in function oriented design.
- 12. Explain the following in the context of software design description :
 - i) Design constraint
 - ii) Design entity
- 13. Explain inheritance property in object oriented designing
- 14. Justify the benefit of mixed integration testing.

(1+1)

PART - C
(Essay)

Answer any 4 questions :

(4×3=12)

- 15. What is software process ? List out the activities involved in a software process.
- 16. Explain the three levels of software design.
- 17. Explain the design process of object oriented designing.
- 18. Illustrate the concept of composition in object oriented designing.
- 19. Compare and contrast bottom-up and top-down integration testing strategies.
- 20. i) Describe data flow based testing.
ii) Explain definition - use chain of a variable.

(2+1)

PART - D
(Long Essay)

Answer any 2 questions :

(2×5=10)

- 21. What are the desirable characteristics of well-engineered software ?
- 22. Explain the outcomes of requirements gathering phase.
- 23. Describe various cohesion types.
- 24. Elaborate on black box testing and black box test case designing.