



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 of classes ?
6. Define the term 'test 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.

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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.
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