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IV Semester B.C.A. Degree (C.B.C.S.S. – O.B.E. – Regular/Supplementary/ Improvement) Examination, April 2025 (2019 to 2023 Admissions) Core Course 4B08BCA : SOFTWARE ENGINEERING

Time : 3 Hours

PART – A (Short Answer)

Answer all questions.

- 1. What is software development life cycle ?
- 2. Define software product.
- 3. What are the different types of requirements in software engineering ?
- 4. What is the purpose of function-oriented design ?
- 5. Define object-oriented analysis.
- 6. What is alpha testing ?

PART – B (Short Essay)

Answer any 6 questions.

- 7. Explain the importance of software characteristics.
- 8. Differentiate between functional and non-functional requirements.
- 9. What is feasibility study ? Explain briefly.
- 10. Describe the advantages of modularity in software design.

(6×2=12)

P.T.O.

Max. Marks: 40

(6×1=6)

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- 11. What is the significance of object-oriented design methodologies ?
- 12. Differentiate between validation and verification in software testing.
- 13. Explain the concept of decision table-based testing.
- 14. What are the key steps in system testing ?

PART - C (Essay)

Answer any 4 questions.

- college 15. Compare the incremental and spiral models.
- 16. Explain the different types of requirement gathering techniques.
- 17. What are the key components of software design documentation ?
- 18. Explain different object-oriented design notations.
- 19. What are the different types of software testing techniques ?
- 20. Explain data flow testing with an example.

ART - D ong Essay

Answer any 2 questions.

- 21. Explain different software process models with their advantages and disadvantages.
- Describe the various steps involved in requirement engineering.
- 23. Explain function-oriented vs object-oriented design approaches with examples.
- 24. Discuss different levels of software testing with examples.

 $(4 \times 3 = 12)$

 $(2 \times 5 = 10)$