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IV Semester B.C.A. Degree Examination, August/September - 2023

COMPUTER SCIENCE
Software Engineering
(CBCS Scheme Repeaters)

Maximum Marks :100

Time : 3 Hours

Instructions to Candidates:

Answer All Sections.

SECTION - A

I. Answer any TEN questions. Each question carries 2 marks.

(10×2=20)

1. Define Software Engineering.
2. Mention types of Software product.
3. Define Prototype.
4. What is SRS?
5. Mention Characteristics of GUI
6. What is cohesion?
7. Differentiate between verification and Validation.
8. What is acceptance testing?
9. What is RGM?
10. Define software reliability.
11. What is Test Plan?
12. What is Software Project Management?



SECTION - B

II. Answer any FIVE questions. Each question carries 5 marks.

(5×5=25)

13. Explain different Phases of SDLC.
14. Write a note on Risk Management.
15. Explain different types of Prototyping.

[P.T.O.]



16. Write IEEE structure of SRS document.
17. Explain Clean room software development process. Mention advantages and disadvantages.
18. Briefly explain System reliability engineering.
19. Write a note on Interface testing.
20. Explain different types of software maintenance.

SECTION - C

III. Answer any **THREE** questions. Each question carries 15 marks. (3×15=45)

21. a) Explain Waterfall model with a neat diagram. Mention its advantages and disadvantages.
b) Explain System procurement process. (7+8)
22. a) Explain functional and non-functional requirements.
b) Briefly explain System engineering process with a neat diagram (7+8)
23. a) What is Coupling? Explain different types of coupling.
b) Explain function - oriented design (8+7)
24. a) Explain different types of software Reliability Metrics.
b) Explain styles of user system interaction (8+7)
25. a) Explain Black box and white box testing.
b) Write a note on COCOMO model. (8+7)

SECTION - D.

IV. Answer any **ONE** question. This question carries 10 marks. (1×10=10)

26. Explain Spiral model with neat diagram. Mention its advantages and disadvantages.
27. Explain different test strategies.