196001 **DCCA-503**

V Semester B.C.A. Degree Examination, December/January - 2025/26
(NEP Scheme Freshers and Repeaters)
COMPUTER APPLICATIONS
Software Engineering
Paper - DSC15

NEW HORIZON COLLEGE LIBRARY KASTURINAGAR BANGALORE-43

Time : 2½ Hours **Maximum Marks : 60**

***Instructions*:**

Answer all the Sections.

SECTION - A

I. Answer any Six questions. Each question carries 2 marks. **(6×2=12)**

1. Define software engineering.
2. What is V-model?
3. What is requirement management?
4. What is requirement engineering?
5. Define generalization.
6. What is repository architecture?
7. Define design model.
8. What is text driven development?
9. What is acceptance testing?

SECTION - B

II. Answer any Four questions. Each question carries 6 marks. **(4×6=24)**

10. Explain the goals of software engineering.
11. Write a note on agile development model.

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12. Explain functional requirements.

13. Explain model driven engineering.

14. Explain layered architecture.

15. Differentiate between verification and validation.

SECTION - C

III. Answer any Three questions. Each question carries 8 marks. **(3×8=24)**

16. Explain waterfall model. Mention its advantages and disadvantages. **(8)**

17. Write a note on:
    a) Requirement Validation. **(4)**
    b) Requirement Management. **(4)**

18. Explain behavioral models. **(8)**

19. Explain object oriented design using UML. **(8)**

20. What is testing? Discuss alpha and beta testing. **(8)**