



DCCA 503



V Semester B.C.A. Degree Examination, February/March 2024
(NEP) (Freshers)
COMPUTER APPLICATIONS
DSC15 : Software Engineering

Time : 2½ Hours

Max. Marks : 60

Instruction : Answer **all** the Sections.

SECTION – A

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

- 1) Define Software engineering.
- 2) What is plan driven agile method ?
- 3) Define functional requirement.
- 4) What is requirement management ?
- 5) What are class diagrams ?
- 6) What is model driven engineering ?
- 7) What is Object Oriented Design ?
- 8) What is Layered architecture ?
- 9) Define Alpha testing.

SECTION – B

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

- 10) Explain Waterfall model with a neat diagram.
- 11) Write a note on Requirement elicitation and analysis.
- 12) Explain context model with a diagram.
- 13) Explain various design patterns.
- 14) Explain development testing with a diagram.
- 15) Describe test driven development.

P.T.O.





SECTION – C

III. Answer any 3 questions. Each question carries 8 marks.

(3×8=24)

- 16) a) Briefly explain software engineering ethics. 4
b) Briefly explain two requirement validation techniques. 4
- 17) Explain Generalization and Aggregation with examples.
- 18) Explain Repository architecture and Client server architecture with examples.
- 19) Discuss design models and interface specification.
- 20) a) Explain various test cases of software testing. 4
b) Write a note on Release testing. 4
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