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.

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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