

[Total No. of Questions - 9] [Total No. of Printed Pages - 2]

Dec.-23-0472

CS-505 (Software Engineering) [CSE, IT]

B.Tech. 5th (CBCS)

Time : 3 Hours

Max. Marks : 60

*The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.*

**Note :** Attempt Five questions in all, selecting one question each from Section A, B C and D. Question no. 9 of Section-E is compulsory.

#### SECTION - A

1. Explain spiral model and how both the waterfall and prototyping model can be accommodated in the spiral process model? (10)
2. What is SRS? What are its components and list characteristics of good SRS document? (10)

#### SECTION - B

3. Write short note on:
  - (a) Project scheduling
  - (b) Staffing (2×5=10)
4. Discuss in detail types of COCOMO in estimation of project Size and effort. (10)

#### SECTION - C

5. Explain in detail software quality management system. (10)
6. Explain principles of testing and what are the various types of testing? (10)

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#### SECTION - D

7. What are the different types of maintenance that a software product might need? Why is such maintenance required? (10)
8. What do you understand by term reuse domain? Explain domain analysis and how domain analysis leads to increased performance? (10)

#### SECTION - E (Compulsory Question)

9. Differentiate between:
  - (i) Verification and validation.
  - (ii) DFD and ER diagram.
  - (iii) Forward engineering and reverse engineering.
  - (iv) White box and black box testing. (4×5=20)