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16341(D)

**M. Tech 3rd Semester Examination**  
**Advanced Software Engineering Concepts**  
**CSE1-E01/MT-302**

**Time : 3 Hours**

**Max. Marks : 100**

*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 one question each from Section A, B, C, and D. Section E is compulsory. Write suitable comments wherever necessary. Assume Data wherever necessary.

**SECTION - A**

1. Explain how incremental software development life cycle model is used to develop the software? Write its advantages and disadvantages. (20)

OR

2. (a) Explain the standards for developing life cycle model. Write their need also. (10)
- (b) "The software-development process followed to develop a software effects the maintenance phase." Is this statement true? Justify your answer by taking an appropriate example. (10)

**SECTION - B**

3. Write a detailed note on object oriented methodology. (20)

OR

4. (a) Explain why requirement elicitation is important for successful software development by taking one example. (10)

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- (b) Describe requirement models in detail. (10)

**SECTION - C**

5. Explain all types of relationships in UML with examples. (20)

OR

6. (a) Draw and explain one interaction diagram in UML. (10)
- (b) Write a detailed note on design model. (10)

**SECTION - D**

7. Explain how testing of an object oriented system is done? How it differs from testing of procedure oriented systems. (20)

OR

8. (a) Write a detailed note on block design. (10)
- (b) Illustrate the system design concepts in detail? What are the pre requisites for the system design? (10)

**SECTION - E**

9. Short answer type questions:-

- (i) Define Software Engineering.
- (ii) What is meant by activity?
- (iii) What is conceptual model of UML?
- (iv) What is meant by case study?
- (v) Who is actor in UML? (4×5=20)