

Roll No.

3232

**B. Tech. 5th Semester (CSE) (Elective-I)
Examination – December, 2022**

SOFTWARE ENGINEERING

Paper : PEC-CSE-311-G

Time : Three hours]

[Maximum Marks : 75

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt *five* questions in all, selecting *one* question from each Unit. Question No. 1 is *compulsory*. All question carry equal marks.

1. (a) What is software project management ?
- (b) Write short note on staffing.
- (c) Discuss the term modularity.
- (d) Explain data modeling.

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(e) Discuss unit testing.

(f) Define the term reverse engineering. $2.5 \times 6 = 15$

UNIT - I

2. What is risk management and why it is important in software engineering ? 15

3. Discuss software life cycle models in detail. 15

UNIT - II

4. Explain system design concepts and principles. 15

5. Explain the concept of data flow diagrams. 15

UNIT - III

6. What are the differences between alpha testing and beta testing ? 15

7. Explain software architecture design. 15

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UNIT - IV

8. Explain software reliability and define how software and hardware reliability related to each other. 15

9. Explain computer aided software engineering. 15

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