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Roll No.

TCS-611

**B. TECH. (CSE) (SIXTH SEMESTER)
MID SEMESTER**

EXAMINATION, March, 2024

SOFTWARE ENGINEERING

Time : 1½ Hours

Maximum Marks : 50

Note : (i) Answer all the questions by choosing any *one* of the sub-questions.

(ii) Each sub-question carries 10 marks.

1. (a) Explain in detail various cycles of Spiral model. Also state the advantages and disadvantages of this model. (CO1)

OR

- (b) Discuss the main objectives of Software Engineering. Also explain the advantages of Prototype Model over Waterfall Model.

(CO1)

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(2)

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2. (a) Explain what is meant by 'Software Crisis' and how it is handled. (CO2)

OR

- (b) Explain the different phases of SDLC. (CO2)

3. (a) Discuss the prototype model. What is the effect of designing a prototype on the overall cost of the Software Project ? (CO1)

OR

- (b) What do you mean by software risk ? Discuss the risk management activities during software development. (CO1)
4. (a) What is SRS ? Who are the different categories of users of the SRS document ? What are their expectations from the SRS document ? (CO1)

OR

- (b) Write short notes on the following with an example : (CO1)
- (i) Decision Table
- (ii) Feasibility Study

(3)

5. (a) (i) Why is Data Flow Diagram used ? Make a DFD for issue and return of books from the library.

- (ii) What do you mean by Formal Technical Review ? What is its significance in software development ? (CO2)

OR

- (b) (i) What do you mean by functional and non-functional requirements ?

Give any four functional and four non-functional requirements for a computer-based library information system.

- (ii) Discuss the IEEE standards for SRS. (CO2)

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