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Roll No.

TCS-611

**B. TECH. (CSE)
(SIXTH SEMESTER) MID SEMESTER
EXAMINATION, April, 2023
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) What do you understand by the term Software Engineering ? What are the characteristics of a good Software-?

(CO1)

OR

- (b) Define the following : (CO1)

(i) Software Engineering

P. T. O.

(ii) Prototyping Model

(iii) RAD Model

2. (a) Explain Agile Development Model and Spiral Model. (CO1)

OR

- (b) What is SDLC ? Identify the different phases of SDLC. Explain with a neat diagram. (CO1)

3. (a) Create a 0 level, 1 level and 2 level DFD for Student Management System. (CO2)

OR

- (b) What do you understand by Waterfall model ? Is there a possibility of having a iterative approach to it ? How is that different ? Explain with diagram. (CO1)

4. (a) What do you understand with the term Requirement Engineering ? Explain the tools for requirement gathering. (CO2)

(3)

OR

- (b) What do you understand by the term Software Crisis ? What are the causes of Software Crisis and what are the different solutions for preventing Software Crisis ?**

(CO2)

- 5. (a) What is SRS ? Explain the significance of SRS.**

(CO2)

OR

- (b) Explain the functional and Non-functional requirements with suitable example.(CO2)**