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Roll No.

TCS-610

**B. TECH. (CSE)
(SIXTH SEMESTER) END SEMESTER
EXAMINATION, 2022
SOFTWARE ENGINEERING**

Time : Three Hours

Maximum Marks : 100

- Note :** (i) All questions are compulsory.
(ii) Answer any *two* sub-questions among (a), (b) and (c) in each main question.
(iii) Total marks in each main question are **twenty**.
(iv) Each question carries 10 marks.
1. (a) What do you understand by the term Software Engineering ? What is the "NO Silver Bullets" concept ? (CO1)

P. T. O.

(b) Explain the Software re-use concepts ?

Define The Incremental Process model and Evolutionary Prototyping Model. (CO1)

(c) What do you understand by Scrum Technology. Explain RUP. (CO1)

2. (a) What are the different types of requirement ? Explain the Requirement elicitation activity with a UML diagram. What in your opinion are the barriers of requirement elicitation. (CO2)

(b) Explain the concept of DFD's and structure chart. (CO2)

(c) Create a 0 and 1-level DFD for Employee Management System. (CO2)

3. (a) Explain Cohesion and coupling. Explain in details their types. (CO3)
- (b) What do you understand by OOD ? Explain Top Down and Bottom Up Approach. (CO3)
- (c) What do you mean by the term Software Metrics and Measure ? What are its types ? Explain Halstead Software science, Cyclomatic Complexity and Function Point. (CO3)
4. (a) What do you mean by Testing ? Explain difference between White Box and Black Box Testing. (CO4)
- (b) Explain Regression and performance testing in details. (CO4)
- (c) How can you explain Alpha beta testing and peer reviews ? (CO4)

5. (a) Write a note on "Regression Testing Software Re-engineering". (CO5, CO6)
- (b) Explain Risk Analysis management. Explain its impact on the software development. (CO5, CO6)
- (c) Explain COCOMO Model. (CO5, CO6)