(4)   **TCS–610**

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)

TCS–610   **1,250**

H   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 Healsted 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)