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TCS–610

B. TECH. (CSE) (SIXTH SEMESTER) MID SEMESTER EXAMINATION, April/May, 2022

SOFTWARE ENGINEERING

Time : 1½ Hours

Maximum Marks : 50

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

(ii) Each question carries 10 marks.

1. (a) Define the following : 10 Marks (CO1)

(i) Software Engineering

(ii) SDLC

(iii) Prototyping Model

(iv) RAD Model

OR

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

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2. (a) Explain Agile Development Model and Spiral Model. 10 Marks (CO1)

OR

(b) What do you understand with the term Requirement Engineering ? Explain the terms : 10 Marks (CO2)

(i) Decision Tree

(ii) Data Dictionary

(iii) Decision Table

3. (a) Create a 0 level, level and 2 level DFD for Student Management System. 10 Marks (CO2)

OR

(b) (i) There is a software project called "Water Management System" and we want to choose a process model. What do you think is the suitable one ? The software requirements are clear.

(ii) Mark is preparing a formal document which includes all of the desired features identified by the survey. Identify the requirement activity. 10 Marks (CO1)

4. (a) What is a structured design approach ? What is function design and object oriented design ? 10 Marks (CO3)

OR

(b) Explain cohesion and coupling. Make a structure chart for student management system. 10 Marks (CO3)

5. (a) Discuss objectives of software design. Describe the difference between conceptual design and technical design. 10 Marks (CO3)

OR

(b) "A good software design has least degree of coupling and high degree of cohesion." Explain the statement. 10 Marks (CO3)