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Roll No.

TBC-305/TBI-304

B. C. A./B. SC. (IT)

(THIRD SEMESTER)

MID SEMESTER EXAMINATION, 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 term Software Engineering. How will you define efficiency of a software ? Explain the importance of software engineering. (CO1)

OR

(b) Demonstrate the various characteristics of a software. (CO1)

2. (a) Clarify the software crises. What are the reasons of software crises and how these crises can be solved ? (CO2)

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OR

- (b) In your opinion, what the problems will a software developer face during the software development ? How these problems can be solved ? (CO2)
3. (a) What do you mean by Software Quality Assurance ? What are software quality assurance's main components and activities ? (CO1)

OR

- (b) Demonstrate the term SDLC. By taking a real world example, explain Waterfall model. (CO1)
4. (a) What are the various advantages and disadvantages of Prototype and RAD models ? (CO1)

OR

- (b) Explain the software requirement and analysis. Define the need of SRS document in software development. Define requirement process. (CO1)

(3)

5. (a) Clarify the importance of Data Modelling. Design 1-level DFD for a restaurant system. (CO2)

OR

- (b) Clarify the various components of a SRS. Differentiate between Functional vs. Object-oriented approach. (CO2)