H Roll No. .....

TBC–504/TBI–504

B. C. A./B. SC. (IT)
(FIFTH 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 sub-question carries 10 marks.

1. (a) Define Software Engineering. 'Software does not wear out.' Justify. (CO1)

OR

(b) What are the symptoms of software crisis ? What are the possible solutions to it ? (CO1)

P. T. O.

2. (a) Draw and explain spiral model. Also explain the merits and demerits of this model. (CO1)

OR

(b) List desirable characteristics of good SRS document. Also explain the different components of SRS. (CO2)

3. (a) Describe the various steps in software development life cycle. What are the end products of each step ? (CO1)

OR

(b) Draw and explain prototype model with diagram. (CO1)

4. (a) Discuss top-down, bottom-up designing. Also explain abstraction, decomposition and modularization. (CO2)

OR

(b) Explain the terms verification, validation, functional and object-oriented approach. (CO2)

5. (a) Explain the different domains of software. Also differentiate between generic and customized types of software. (CO1)

OR

(b) Discuss the objective of modular software design using the terms cohesion and coupling. (CO2)