



R20 Regulation

Subject code: 3P4EC

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A' Grade)

B.Tech IV Semester Regular Examinations, July 2022

SOFTWARE ENGINEERING

(CSE & CSE(AI&ML))

Maximum Marks: 70

Date: 26.07.2022 Duration: 3 hours

- Note:
1. This question paper contains two parts A and B.
 2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
 3. Part B consists of 5 Units. Answer any one full question from each unit which carries 10M.
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks

(10x2M=20 Marks)

- 1 What is meant by the Software engineering paradigm?
- 2 Define SDLC.
- 3 What is requirement engineering?
- 4 Define Behavioral Modeling.
- 5 What is coupling?
- 6 What are the elements of the design model?
- 7 Distinguish between alpha and beta testing.
- 8 Define White Box Testing.
- 9 What is risk management?
- 10 Differentiate fault and failure.

Part-B

Answer All the following questions.

(10MX 5=50Marks)

- 11 Explain the Waterfall Model. What are the problems that are encountered when the waterfall model is applied? [10]
- OR
- 12 Explain in detail the following software process models with a neat diagram.
i) Evolutionary process model. [5] ii) Incremental Process model. [5]
- OR
- 13 Explain object models with examples. [10]
- OR
- 14 What is requirement engineering? State its process and explain the requirements elicitation problem. [10]
- OR
- 15 Design and describe the architecture styles and patterns. [10]
- OR
- 16 Explain in detail the various design concepts considered during design? [10]
- OR
- 17 A. Explain the testing objectives and its principles. [6]
B. What are the attributes of a good test? [4]

OR

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- 18 What is black-box testing? Explain the different types of black-box testing strategies with example? [10]
- 19 Define Risk. Explain the needs and activities of risk management? [10]
- OR
- 20 Describe in detail the RMMM plan with an example information sheet. [10]