



R18 Regulation

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

Subject code: 2P4EE

B.Tech IV Semester Regular/Supplementary Examinations, July 2021

SOFTWARE ENGINEERING
(COMPUTER SCIENCE & ENGINEERING)

Maximum Marks: 70

Date:06.08.2021 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 are the merits of incremental model?
- 2 Define legacy software?
- 3 What is meant by system requirements?
- 4 Explain about context models.
- 5 Write brief notes on data design.
- 6 Write about interface design evaluation.
- 7 What is meant by debugging?
- 8 Define Black-Box and White-Box testing?
- 9 What is meant by software reliability?
- 10 Discuss the reactive risk strategy.

Part-B

Answer All the following questions. (5x10M=50Marks)

- 11 A. State and explain various software myths.
B. Explain CMMI with a neat diagram. [5+5]
- OR
- 12 A. Explain about The Waterfall Model with neat diagram
B. Explain Integrity Constraints over Relations. [5+5]
- 13 A. Describe five desirable characteristics of a good software requirement specification document.
B. Differentiate between functional and non-functional requirements. [5+5]
- OR
- 14 A. Explain adaptive software development with neat diagram.
B. List and explain the object models in brief. [5+5]
- 15 A. How do we assess the quality of a software design.
B. Explain clearly Architectural styles and patterns. [5+5]

OR

- 16 A. What do you mean by the terms cohesion and coupling in the context of software engineering.
B. Explain the process of mapping data flow into software architecture. [5+5]
- 17 A. What is the need of software testing? What are its main objectives and principles?
B. Explain the size oriented and function-oriented metrics. [5+5]
- OR
- 18 A. Explain Testing strategies for conventional software? [5+5]
B. Distinguish between error and failure. Which of the two is detected by testing? Justify.
- 19 A. Discuss the process of risk management.
B. What types of risks occur during software development? Discuss. [5+5]
- OR
- 20 A. Differentiate between Reactive Vs Proactive risk strategies.
B. What is the significance formal technical review. Explain. [5+5]