



R20 Regulation

Subject code: 3P5FA

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech V Semester Supplementary Examinations, November 2025

SOFTWARE ENGINEERING

(IT)

Maximum Marks: 70

Date:14.11.2025

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.
 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)		Marks	CO	BTL
1	Define CMMI model and list out levels.	2M	1	L1
2	Define software. List out types of software.	2M	1	L1
3	What are system requirements?	2M	2	L1
4	What is context model?	2M	2	L1
5	Define cohesion.	2M	3	L1
6	What is the use of UML?	2M	3	L1
7	Write short notes on Black box Testing.	2M	4	L1
8	Define Software Quality. List out the important principles of software quality.	2M	4	L1
9	What is Risk Management?	2M	5	L1
10	Write short notes on Software Reviews.	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	a) Discuss software myths in detail. b) Demonstrate process patterns in detail.	5M 5M	1	L2
12	a) Explain software process assessment in detail. b) Illustrate CMMI model in detail.	5M 5M	1	L2
13	Explain Requirements Engineering process in detail.	10M	2	L2
OR				
14	Explain in detail about Behavioral models with neat sketch.	10M	2	L2
15	Demonstrate Architectural Styles in detail.	10M	3	L2
OR				
16	Illustrate Class Diagram and Sequence Diagram in detail.	10M	3	L2

17	a) Explain briefly about metrics for maintenance. b) Explain Top-down integration in detail.	5M 5M	4	L2
18	Discuss about the metrics for design model and source code.	10M	4	L2
19	Discuss about Risk Projection and Risk Refinement.	10M	5	L2
20	Explain in detail about Formal Technical Reviews.	10M	5	L2