R18 Regulation *Subject code:2P4EE*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech IV Semester Supplementary Examinations, December 2025

SOFTWARE ENGINEERING

(CSE)

Maximum Marks: 70 Date: 29.12.2025 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	Compare waterfall model and spiral model.	2M	1	L1
2	What is software engineering activity?	2M	1	L1
3	Explain the kinds of system requirements	2M	2	L1
4	What are functional requirements for software?	2M	2	L1
5	List out Quality attributes.	2M	3	L1
6	What is cohesion?	2M	3	L1
7	What are the testing principles the software engineer must apply while performing the software testing?	2M	4	L1
8	What is the difference between STLC&SDLC?	2M	4	L1
9	Give a short notes on formal technical reviews	2M	5	L1
10	Describe six sigma for software	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	Explain changing nature of software in detail	10M	1	L2
	OR			
12	Explain briefly about any two Software development process models.	10M	1	L2
13	Which model in system modelling depicts the static nature of the system? Explain in detail.	10M	2	L2
	OR			
14	What is software management? Explain in detail.	10M	2	L2
15	Discuss fundamental principles of structured design. Write notes on transform analysis.	10M	3	L2
	OR			
16	What are the design concepts in software engineering?	10M	3	L2

17	Discuss a framework for product metrics.	10M	4	L2
	OR			
18	Demonstrate art of debugging. Demonstrate metrics for analysis model.	10M	4	L2
19	Explain about Quality concepts? Describe metrics for source code and for testing.	10M	5	L2
	OR			
20	Explain about the importance of test strategies for conventional software.	10M	5	L2