R18 Regulation *Subject code:2P4FD*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech IV Semester Supplementary Examinations, April 2025

SOFTWARE ENGINEERING

(IT)

Maximum Marks: 70 Date: 08.05.2025 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 as sub questions.

Part-A

	All the followin questions carr e ual marks 10X2M=20 Marks	Marks	CO	BTL
1	What is software? What are the development lifecycle hases?	2M	1	L1
2	List all the umbrella activities in process framework?	2M	1	L1
3	Write short note on modularization.	2M	2	L1
4	What are functional requirements for software?	2M	2	L1
5	List out the differen Architectural st les	2M	3	L1
6	What are architectural interns? Ex lain brie?	2M	3	L1
7	What is meant b software measurement?	2M	4	L1
8	Define Black box and white box testin ?	2M	4	L1
9	Define RMMM? Write shat mean.	2M	5	L1
10	What is Risk Identification? Write short notes on it.	2M	5	L1

Part-B

	Answer All the following questions. (5X10M=50Marks)	Marks	CO	BTL
11	Describe With the hel p of the dia gram ex lain the CMMI.	10M	1	L2
	OR			
12	Demonstrate the process frame work activities.	10M	1	L2
13	What is an Elicitation? How can you gather requirements (elicitation techni ques ?	10M	2	L2
	OR			
14	Explain the following system models a) Context model b) Behavioral model with neat diagrams.	5M 5M	2	L2
15	Discuss fundamental principles of structured design. Write notes on software architecture.	10M	3	L2
	OR			
16	Explain interface design steps in detail.	10M	3	
17	a) Demonstrate metrics for analysis model? b) Describe metrics for source code and for testin ?	5M 5M	4	
	OR			

18	Explain in detail about integration testing with neat sketch.	10M	4	L2
19	a. Illustrate Review Guidelines. b. Explain how to assess risk impact.	5M 5M	5	L2
	OR			
20	a. Discuss about software risks in detail. b. Explain Software Reliability in detail.	5M 5M	5	L2