



R18 Regulation Subject code: 2P4EE  
**TKR COLLEGE OF ENGINEERING AND TECHNOLOGY**  
(Autonomous, Accredited by NAAC with 'A+' Grade)

**B.Tech IV Semester Supplementary Examinations, July 2024**

**SOFTWARE ENGINEERING**  
(CSE)

**Maximum Marks: 70**

Date: 27.07.2024 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)	CO	Bloom Tx
1	Compare waterfall model and spiral model		1	L1
2	List all the umbrella activities in process framework?		1	L1
3	Write short note on User requirement?		2	L1
4	What are functional requirements for software?		2	L1
5	List out the different Architectural styles		3	L1
6	What is mean by software design quality? Explain.		3	L1
7	What are the testing principles the software engineer must apply while performing the software testing?		4	L1
8	What is the difference between STLC&SDLC?		4	L1
9	Give a short notes on formal technical reviews		5	L1
10	Describe six sigma for software		5	L1

**Part-B**

Answer All the following questions.

(5X10M=50Marks)

11	a) Explain briefly about software crisis. [5m] b) Explain process patterns. [5m]		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 requirement management? Explain in detail. [10m]		2	L2
15	a) Write about Pattern based software design. [5m] b) Elaborate modeling component level design [5m]		3	L2
OR				
16	What are the design concepts in software engineering [10m]		3	L2
17	a) demonstrate metrics for analysis model? [4m]		4	L2

	b) Describe metrics for source code and for testing? [6m]		
	OR		
18	a) list the metrics for the design model. [5m] b) Write long notes on system testing? [5m]	4	L2
19	Explain about proactive vs reactive risk strategies in detail. [10m]	5	L2
	OR		
20	Explain about RMMM in detail. [10m]	5	L2