R20 Regulation *Subject code:3P5FA*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech V Semester Supplementary Examinations, July 2024

SOFTWARE ENGINEERING

(IT)

Maximum Marks: 70 Date:01.08.2024 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.
4. Each question carries 10 marks and may have a, b, c, d as sub questions.

	Part-A	CO	Bloom Tx level
All the following questions carry equal marks (10X2M=20 Marks)			
1	Why can't we find all errors before we give the software to our customers?	CO1	L2
2	What is a software process?	CO1	L2
3	How is the requirements model created and what are its elements?	CO2	L2
4	Does the Requirements model represents a snapshot of a system in time?	CO2	L3
5	If a software design is not a program (and it isn't), then what is it?	CO3	L4
6	Describe software architecture?	CO3	L2
7	What is system testing?	CO4	L2
8	List the Debugging strategies?	CO4	L2
9	Explain Software Risks?	CO5	L2
10	What is SQA?	CO5	L2
	Part-B		
Answer All the following questions. (5X10M=50Marks)			Bloom Tx level
11	a. Elucidate the generic framework activities that are present in every software process? [5] b. Are the Unified Process and UML the same thing? Explain. [5]	CO1 CO1	L3 L3
	OR		
12	Describe Waterfall model and its merits and demerits. [10]	CO1	L3
13	a. Discuss the seven Requirements Engineering Tasks. [5] b. Describe data objects, relationships, and attributes for Network-based course registration system for your university Web-based order-processing system for a computer store? [5]	CO2 CO2	L1 L3
	OR		
14	a. Elucidate how SRS Document is prepared. [5] b. Discuss the steps to create a Behavioral Model. [5]	CO2 CO2	L3 L2
15	a. Explain the dimensions of a Design Model. [5]	CO3	L2

	b. Model the Railway Reservation System case study using Use Case Diagram, Sequence Diagrams,Class Diagram and Component Diagram. [5]	CO3	L3
	OR		
16	a. Discuss Architectural Patterns. [5] b. Explain different UML diagrams. [5]	CO3 CO3	L2 L2
17	Explain about CMMI capability, maturity model integration. [10]	CO4	L2
	OR		
18	a. What is Debugging? Explain with an example. [5] b. Explain the metrics for Testing. [5]	CO4 CO4	L2 L2
19	a. Compare and Contrast different Risk strategies. [5] b. What is software Reliability? How it is achieved? [5]	CO5 CO5	L4 L2
	OR		
20	Write short note on ISO 9000 Quality Standards. [10]	CO5	L2