



R20 Regulation *Subject code: 3P5FA*
TKR COLLEGE OF ENGINEERING AND TECHNOLOGY
(Autonomous, Accredited by NAAC with 'A' Grade)
B.Tech V Semester Supplementary Examinations, June/July 2023

SOFTWARE ENGINEERING
(INFORMATION TECHNOLOGY)

Maximum Marks: 70

Date:01.07.2023 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)
- 1 What are the objectives of CMMI ?
 - 2 Write a brief note on Software Myths.
 - 3 Difference between Functional and Non-Functional Requirements.
 - 4 What are the Guidelines for writing SRS.
 - 5 What is FURPS ?
 - 6 What is Design process and Design Quality.
 - 7 What is Debugging?
 - 8 Define Verification and Validation.
 - 9 Define Software Quality Assurance
 - 10 Define software risk. List types of risks.

Part-B

Answer All the following questions.

(10MX 5=50Marks)

- 11 a) Explain in detail spiral model. (6m)
b) What are the benefits of using Waterfall Model? (4m)
OR
- 12 a) What is Software Engineering and How the layers implemented in Software Development. (6m)
b) Explain the objectives of Software Engineering. (4m)
- 13 What is Feasibility Study? Explain the Types of Feasibility and the Feasibility Study process? (10m)
OR
- 14 Explain the Components, Features, Uses and Importance of Data Dictionary. How Data Dictionary is the major component in the Structured analysis model of the system? (10m)
- 15 a) Explain UML in detail? (5m)
b) Draw and Explain the UML diagram for Library Management System. (5m)
OR
- 16 a) Write short note on DFD? (4m)
b) Explain the DFD for Food Ordering System with the Entities Supplier, Kitchen, Manager and Customer who interact with the system. (6)

- 17 a) What is Testing and What are the benefits of Software Testing? (5m)
b) Explain in detail on Black-Box and White-Box testing. (5m)
OR
- 18 Explain the Metrics in Analysis Model and for Design Model. (10m)
- 19 Explain RMMM and RMMM plan in detail. (10m)
OR
- 20 a) Discuss about Risk Avoidance briefly. (5m)
b) Explain in detail about Risk Identification. (5m)