



Regulation R17

Subject code: 1E5EE

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY  
(Autonomous, Accredited by NAAC with 'A' Grade)

**B.Tech III Year I Semester Supplementary Examinations, December 2021**

**SOFTWARE ENGINEERING**

(Computer Science and Engineering)

**Maximum Marks: 70**

Date:08.02.2022 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)

- 1 Define legacy software?
- 2 List the types of software myths?
- 3 Write down the kinds of system requirements?
- 4 Define context models.
- 5 Differentiate between cohesion and coupling?
- 6 What is Design?
- 7 Define alpha testing.
- 8 Define system testing.
- 9 Define reactive and proactive risk strategies.
- 10 Define risk projection.

Part-B

Answer All the following questions.

(5X10M=50Marks)

- 11 A) Explain briefly about software crisis.  
B) Explain process patterns. [ 5+5]

OR

- 12 Explain briefly about any two Software development process models. [10]
- 13 Which model in system modeling depicts the dynamic behavior of the system explain in detail. [10]

OR

- 14 a) What are the characteristics of software requirement documentation (SRD)?  
b) Explain about requirements validation. [5+5]
- 15 Write about Design Quality? [10]

OR

- 16 Describe mapping data flow into a software architecture. [10]
- 17 Discuss black box testing in a detailed view. [10]

OR

- 18 Discuss software quality factors? Discuss their relative importance. [10]
- 19 Explain about Quality concepts? Describe metrics for source code and for testing. [10]

OR

- 20 Explain about the importance of test strategies for conventional software. [10]