



Regulation: R17

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

Subject code: 1P5FC

B.Tech III Year I Semester Supplementary Examinations, January 2023
SOFTWARE ENGINEERING
(IT)

Maximum Marks: 70

Duration: 3 hours

- Note:
1. This question paper contains two parts A and B.
 2. Part A is compulsory which carries 10 marks. Answer all questions in Part A.
 3. Part B consists of 5 Units. Total 10 questions it consists.
 4. Part-B each question carries 12 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks

(10x2M=20 Marks)

- 1 List the goals of software engineering?
- 2 What is software process? List its activities.
- 3 What is Software Prototyping?
- 4 Define functional and non- Functional requirements.
- 5 List the architectural models that can be developed
- 6 Define data acquisition
- 7 What are the objectives of testing?
- 8 Define black box testing
- 9 What are the processes of risk management?
- 10 What is RMMM?

Part-B

Answer All the following questions.

(5X10M=50Marks)

- 11 Discuss about the unified process phases and its disciplines.

OR

- 12 Explain the following: (i) waterfall model (ii) Spiral model (iii) RAD model (iv) Prototyping model.

- 13 What is the purpose of data flow diagrams? What are the notations used for the same. Explain by constructing a context flow diagram level -0 DFD and level-1 DFD for a library management system?

OR

- 14 Discuss any four process models with suitable application.

- 15 Explain clearly the concept of coupling & cohesion? For each type of coupling give an example of two components coupled in that way?

OR

- 16 Explain the basic concepts of software design.

- 17 Explain Integration & debugging activities.

OR

- 18 What is unit testing? Why is it important? Explain the unit test consideration and test procedure.
- 19 Define Risk. Explain the needs and activities or risk management.

OR

- 20 Explain the various CASE tools for project management and how they are useful in achieving the objectives.

