Regulation R17 *Subject code:1P5FC*

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
(INFORMATION TECHNOLOGY)

Maximum Marks: 70 Date:03.01.2022 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 What is legacy software?
2 List all the umbrella activities in process framework.
3 What are non functional requirements?
4 What is the intent of requirements validation?
5 Define coupling? Explain briefly
6 List out the golden rules for interface design?
7 Define Black-Box testing.
8 What are the metrics for maintenance?
9 What is meant by software Reliability?
10 Differentiate between Reactive and Proactive risk Strategies?

Part-B

Answer All the following questions. (5X10M=50Marks)

11 Explain various software myths in detail. (10M)

OR

12 a) Define the term software. Describe its various characteristics. (5M)
b) Elaborate on the changing nature of software in detail. (5M)

13 a) Explain functional and non-functional requirements with suitable examples. (5M)
b) Explain how a software requirements document is structured. (5M)

OR

14 a) Explain user requirements in detail. (5M)
b) Discuss system requirements in detail. (5M)

15 a) Distinguish between coupling and cohesion. (5M)
b) Explain the process of mapping data flow into software architecture. (5M)

OR

16 a) Illustrate the taxonomy of architectural styles and give a brief description of each style. (5M)
b) Explain architectural patterns in detail. (5M)

17 a) Discuss Black-Box testing in detail. (5M)

b) Explain about framework for product metrics briefly. (5M)

OR

18 a) Demonstrate art of Debugging. (5M)
b) Explain about metrics for software quality. (5M)

19 a) Explain about software risks? (5M)
b) Discuss risk identification in detail. (5M)

OR

20 a) Illustrate RMMM plan in detail. (5M)
b) Demonstrate quality concepts briefly. (5M)