



B.Tech III Year I Semester Supplementary Examinations, July 2022

**SOFTWARE ENGINEERING**

(INFORMATION TECHNOLOGY)

Maximum Marks: 70

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? Explain
- 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.

(10M X 5=50Marks)

- 11 Explain various software myths in detail. 10
- OR
- 12 a) Define the term software. Describe its various characteristics. 5  
b) Elaborate on the changing nature of software in detail. 5
  - 13 a) Explain functional and non-functional requirements with suitable examples. 5  
b) Explain how a software requirements document is structured. 5
- OR
- 14 a) Explain user requirements in detail. 5  
b) Discuss system requirements in detail. 5
  - 15 a) Distinguish between coupling and cohesion. 5  
b) Explain the process of mapping data flow into software architecture. 5
- OR
- 16 a) Illustrate the taxonomy of architectural styles and give a brief description of each style. 5  
b) Explain architectural patterns in detail. 5

- 17 a) Discuss Black-Box testing in detail. 5  
b) Explain about framework for product metrics briefly. 5  
OR
- 18 a) Demonstrate art of Debugging. 5  
b) Explain about metrics for software quality. 5
- 19 a) Explain about software risks? 5  
b) Discuss risk identification in detail. 5  
OR
- 20 a) Illustrate RMMM plan in detail. 5  
b) Demonstrate quality concepts briefly. 5