



B.Tech IV Semester Regular/Supplementary Examinations, July 2021

SOFTWARE ENGINEERING
(INFORMATION TECHNOLOGY)

Maximum Marks: 70

Date:04.08.2021 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 is legacy software? Explain.
- 2 List evolutionary process models.
- 3 Differentiate between user requirements and system requirement.
- 4 Write the purpose of context model.
- 5 What are the goals of the design process?
- 6 List the principles of a software design.
- 7 What is meant by debugging?
- 8 What are the metrics used for software maintenance?
- 9 Differentiate between reactive risk and proactive risk strategies.
- 10 What is meant by software review?

Part-B

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

- 11
 - A. Discuss managers myths about software development and their effect on the practitioners performance as well as on overall outcome. (5M)
 - B. Give CMMI levels and explain. (5M)

OR
- 12
 - A. How does system engineering differ from software engineering? Also write brief notes on computer based system and system engineering hierarchy? (5M)
 - B. Explain the COCOMO model for estimation. (5M)
- 13
 - A. Differentiate between functional and non-functional requirements. (5M)
 - B. List and explain the object models in brief. (5M)

OR
- 14
 - A. Describe five desirable characteristics of a good software requirement specification document. (5M)
 - B. Discuss the main characteristics of data model for requirement engineering. (5M)

