

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

**B.Tech. (IT) (Sem.-5)**  
**SOFTWARE ENGINEERING**

Subject Code : BTIT-504-18

M.Code : 78259

Date of Examination : 25-11-2023

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTIONS TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

**SECTION-A**

**1. Write briefly :**

- a. What are functional requirements?
- b. Discuss advantages of spiral model?
- c. What is role of DFD?
- d. Why feasibility study is used?
- e. Define cohesion.
- f. Name any cost estimation model.
- g. What is quality management?
- h. Define unit testing.
- i. Discuss computer aided software engineering.
- j. Write a short note on software reuse.

## SECTION - B

2. Explain the need of software life cycle models in Software Engineering.
3. Write the importance of UML modeling in developing object oriented software.
4. What are coding standards? Discuss any technique for code review.
5. Discuss how software reliability metrics is used in modeling.
6. How ISO and six sigma helps to improve software development process?

## SECTION - C

7. Explain the software requirement analysis and specification? Discuss the various methods for requirement gathering.
8. What are test cases? Explain the different testing methods illustrating their importance.
9. What is project scheduling? How PERT and GANTT charts are used to plan the scheduling of project?

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**