

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

**B.Tech. (CSE) (Sem.-5)
SOFTWARE ENGINEERING
Subject Code : BTCS503-18
M.Code : 78322**

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) Write at least two advantages of Evolutionary model.
- b) Explain in brief about impact of software engineering.
- c) What is cohesion? Differentiate Cohesion and Coupling.
- d) Explain in brief about object-oriented software development.
- e) Differentiate between static and dynamic analysis.
- f) Explain the concept of test case.
- g) Explain the purpose of Gantt charts.
- h) Explain in brief about quality management.
- i) What is the purpose of software maintenance?
- j) What is component based software development approach?

SECTION-B

2. Differentiate functional and non-functional requirements.
3. Explain in detail about user interface design.
4. Write a detailed note on Software reliability metrics.
5. Write a detailed note on Project Scheduling using PERT.
6. Explain in brief about Software reuse.

SECTION-C

7. Write a detailed note on Waterfall Model.
8. Write a detailed note on DFD. How DFDs are significant for Software Engineering? Explain.
9. Write a detailed note on ISO and SEI CMMI.