

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (CSE) (Sem.-5)
SOFTWARE ENGINEERING

Subject Code : BTCS-503-18

M.Code : 78322

Date of Examination : 20-06-2024

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 is software prototype?
- b. What is a software requirement?
- c. What does the term "refactoring" refer to in software development?
- d. Define Software Metric.
- e. Define unit testing.
- f. Difference between validation and verification.
- g. Role of GANTT chart.
- h. What is need of ISO in software engineering process.
- i. What is Software Reliability?
- j. What is IDE?

SECTION-B

2. What is feasibility analysis? Discuss different types of feasibility studies using in software development.
3. What are coding reviews? Explain the purpose and benefits of code reviews in software development.
4. What are the main challenges associated with estimating software development costs?
5. Explain the importance of project planning in managing software processes.
6. What is software maintenance? Discuss four types of software maintenance.

SECTION-C

7. What is the significance of requirements engineering in software development? Discuss the process of gathering and analyzing requirements and the impact of poor requirements management on a project.
8. Describe the different stages of testing in software development. How do unit testing, integration testing, and system testing differ, and what are their respective purposes?
9. **Write a short note on**
 - a. Capability Maturity Model Integration (CMMI)
 - b. SQA.

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.