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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 : 02-12-2024

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 component based software development?
- b) What is Feasibility Study?
- c) Differentiate between functional and non-functional requirements.
- d) Do you think the maintenance of Software is expensive?
- e) Which SDLC model is the best?
- f) What are Verification and Validation?
- g) What do you mean by SEI-Capability Maturity Model?
- h) What is programming environment?
- i) What are the drawbacks of the Spiral Model?
- j) Explain the term project planning and control in brief.

SECTION-B

2. What is mean by Software Scope?
3. What is Waterfall Method and what are its use cases?
4. What is difference between Cohesion and Coupling?
5. Explain in detail about DFD and Structure Chart.
6. Describe the procedures to calculate cost-benefit analysis.

SECTION-C

7. **Explain the following :**
 - a) Use-Case diagrams
 - b) Software metrics
 - c) CASE
 - d) Testing
8.
 - a) Explain in detail about Object-oriented software development.
 - b) Write detailed difference between White Box and Black Box Testing.
9.
 - a) Explain Software Quality and Quality Attributes. What are Software Quality Standards?
 - b) What is the need for Software Maintenance? How are these maintained for client server architecture environment?

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.