

Roll No.

Total No. of Pages : 02

Total No. of Questions : 18

B.Tech.(CSE/IT) (2012 to 2017) (Sem.–6)

**SOFTWARE ENGINEERING**

Subject Code : BTCS-603

M.Code : 71109

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTION 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**

**Answer briefly :**

1. Write at least two disadvantages of spiral model.
2. What is Software Requirement Specification document? Write at least two benefits of SRS document
3. Define the term modularity. Write at least two advantages of modularity.
4. Explain the term user interface design.
5. Explain in brief about the term coupling.
6. Differentiate between White-box testing and black-box testing.
7. Explain in brief about the term static analysis.
8. Explain the need of Software project management.
9. Explain in brief about the term software maintenance.
10. Explain the term software reuse in brief.

## SECTION-B

11. What do you mean by functional and non-functional requirements? Give at least two examples of each type of requirements.
12. Explain in detail about Object oriented software development.
13. Explain in detail about software reliability metrics.
14. Write a detailed note on white box testing.
15. Explain in detail about SEI CMMI.

## SECTION-C

16. Explain the following Software life cycle models in detail :
  - a) Waterfall Model
  - b) Evolutionary Model
17.
  - a) Explain in detail about Object modeling using UML.
  - b) Explain in detail about Mutation testing. Also write its advantages and disadvantages.
18. Write a detailed note on PSP and Six Sigma.

**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.**