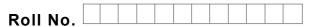
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B.Tech.(CSE/IT) (2012 to 2017) (Sem.-6) SOFTWARE ENGINEERING Subject Code : BTCS-603 M.Code : 71109

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.

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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.

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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.