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Total No. of Questions : 09

B.Tech. (CSE)   (Sem.–6)
SOFTWARE ENGINEERING
Subject Code : BTCS-603
M.Code : 71109
Date of Examination : 16-12-2022

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. **Answer briefly :**

    a) What is need of Behavior Feasibility in software development?

    b) What are the different quality metrics for software?

    c) How maintenance of software become important part of cost of software?

    d) Differentiate between white box and black box testing.

    e) Why do we need to create SRS document?

    f) List problems associated with SDLC.

    g) Define CMMI.

    h) What are advantages of Object oriented software development?

    i) List various coding standards.

    j) Prerequisites to draw GANTT chart.

SECTION-B

2. "*Requirements for a software must be collected in a structured manner to develop a reliable software*". Justify this statement with reasons and types of requirements.

3. What are the factors that affect cost estimation for a software?

4. How UML helps in modelling for a software? Illustrate with suitable example.

5. Differentiate between DFS and structure chart. Draw a DFD elaborating working of software for movie ticket booking.

6. What is user interface design and what are various issues that must be taken care for a good user interface design?

SECTION-C

7. What are the various steps of evolutionary model? Explain and compare it with water fall model.

8. **Write note on following :**

    a) Role of PSP and Six Sigma in software quality management

    b) Computer aided software engineering.

9. Why testing is necessary for software's? What are the different methods to test software? Discuss with suitable example(s).

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.