Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐☐   Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (Information Technology)   (Sem.–8)
SOFTWARE TESTING AND QUALITY ASSURANCE
Subject Code : BTIT-701-18
M.Code : 90569
Date of Examination : 04-07-22

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 quality?

    b) Name two software project management tools.

    c) List down the types of software risks.

    d) What is software validation?

    e) What is black box testing?

    f) What is boundary value analysis?

    g) What is data flow testing?

    h) What do you mean by test case?

    i) Define quality assurance.

    j) What kind of errors can be detected using unit testing?

SECTION-B

2. Compare the weaknesses and strengths of ISO 9000, SPICE and CMM.

3. Explain the SCM with version control and change control with the help of a suitable example.

4. What is the importance of loop testing? Explain the techniques used to test the loops in program.

5. Explain the technical metrics available for accessing the quality of a test case.

6. Discuss the various steps used for testing real time systems.

SECTION-C

7. What are the components of SQA plan? Explain.

8. What do you mean by test data generator and debuggers? Explain in detail.

9. Write a short note on testing techniques for client/server system.

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.