

BACHELOR OF TECHNOLOGY (CBCS) (2021-COURSE)
B. Tech. Sem - V CS&E : WINTER : 2024
SUBJECT: SOFTWARE TESTING & QUALITY ASSURANCE

Day : Monday
Date : 02/12/2024

W-25588-2024

Time : 02:30 PM-05:30 PM
Max. Marks : 60

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Assume suitable data if necessary.

Q.1 What is white box and black box testing? What are different methods for white and black box testing? Explain any one methods of each in detail. (10)

OR

What is software testing? Explain Big Bang testing approach in detail.

Q.2 Explain different types of system testing. (10)

OR

Why we need Integration Testing? Explain its approaches in integration testing.

Q.3 A program reads an integer number within range (1,100) and determines whether it is prime number or not. Design test cases for this program using BVC, robust testing and worst case testing method. (10)

OR

Christmas bonus of the employee depending on affiliation to the company. Employee receive an equal to 50% of their monthly income, If they have been working for the company for more than 3 years. employees who have been employed for more than 5 year receive a 75% bonus and those with more than 8 years of employment are awarded 100% bonus. Design test cases by using equivalence class and boundary value analysis.

Q.4 Explain product and process quality with an example. (10)

OR

Define software quality. List and explain core components of quality.

Q.5 List and explain various standards and methodologies used for defect prevention. (10)

OR

Discuss about FSM based testing of Web-based application.

Q.6 What are some of the challenges in automating the testing of GUI portion of an application? How do these compare with the automation of back end testing? (10)

OR

What is selenium web drivers? What are the selenium web drivers having differences with RC.

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