

BACHELOR OF TECHNOLOGY (CBCS) (2021-COURSE)
B. Tech. Sem - V Computer Science & Engineering : WINTER : 2023
SUBJECT : SOFTWARE TESTING & QUALITY ASSURANCE

Day : Thursday

Time : 02:30 PM-05:30 PM

Date : 30-11-2023

W-25588-2023

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 Explain software testing life cycle phases and define following terms: (10)
i) Fault ii) Error iii) Defect iv) Failure.

OR

With neat sketch discuss about verification and validation model.

Q.2 What are decision tables? Explain decision tables for considering the credit card example. (10)

OR

List and explain factors which are influencing software reliability models.

Q.3 Christmas bonus of the employee depending on affiliation to the company. (10)
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.

OR

By considering online banking system software perform GUI testing and stress testing.

Q.4 Describe about Mc Call's quality factors. (10)

OR

With neat sketch discuss about TMM.

Q.5 What is software quality? What is mean by root cause analysis explain with example. (10)

OR

Write short note on:

- a) Fault Tolerance
- b) Fault containment

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

Discuss about testing framework for selenium.

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