

MCQ 1

Question: What is the main purpose of mutation testing?

- A) To fix bugs in the original program
- B) To evaluate the effectiveness of test cases
- C) To introduce new features into the software
- D) To measure the execution time of the program

Correct Answer: B

MCQ 2

Question: What is a "killed" mutant?

- A) A mutant that causes the original program to crash
- B) A mutant that is detected by a failing test case
- C) A mutant that is not detected by any test case
- D) A mutant that is removed from the program

Correct Answer: B

MCQ 3

Question: Which type of mutation testing focuses on changing logical operators?

- A) Statement Mutation Testing
- B) Value Mutation Testing
- C) Logical Mutation Testing
- D) Industry Trend Mutation Testing

Correct Answer: C

MCQ 4

Question: What is the starting point in mutation testing?

- A) The mutated program (P')

- B) The test cases (T)
- C) The original program (P)
- D) The live mutants analysis

Correct Answer: C

MCQ 5

Question: According to the text, in which industry is mutation testing considered particularly important due to the critical nature of software reliability?

- A) E-commerce
- B) Social Media
- C) Healthcare
- D) Gaming

Correct Answer: C