

43 Lecture - CS504

Important Mcqs

1. What is a syntax error in software development?

- a) An error that occurs during runtime
- b) An error in the code structure or grammar
- c) An error caused by logical flaws in the code
- d) An error that occurs due to invalid input

Solution: b) An error in the code structure or grammar

2. Which bug class is related to incorrect implementation or sequencing of code statements?

- a) Syntax errors
- b) Runtime errors
- c) Logic errors
- d) Boundary errors

Solution: c) Logic errors

3. What is a runtime error?

- a) An error that occurs during code compilation
- b) An error caused by logical flaws in the code
- c) An error that occurs during code execution
- d) An error that occurs due to invalid input

Solution: c) An error that occurs during code execution

4. Which bug class is associated with input values exceeding acceptable ranges?

- a) Syntax errors
- b) Runtime errors

- c) Logic errors
- d) Boundary errors

Solution: d) Boundary errors

5. What is the primary cause of a logic error in software code?

- a) Incorrect code structure
- b) Invalid input data
- c) Incorrect implementation of algorithms or conditions
- d) Memory-related issues

Solution: c) Incorrect implementation of algorithms or conditions

6. What is a type mismatch error in programming languages?

- a) A syntax error caused by incorrect use of brackets or parentheses
- b) A runtime error resulting from invalid input data
- c) An error that occurs when a variable is assigned an incompatible data type
- d) An error caused by exceeding the system's memory limit

Solution: c) An error that occurs when a variable is assigned an incompatible data type

7. Which bug class is related to unexpected program termination or crashes?

- a) Syntax errors
- b) Runtime errors
- c) Logic errors
- d) Boundary errors

Solution: b) Runtime errors

8. What is a null pointer exception in programming?

- a) A syntax error caused by using an undefined variable
- b) A runtime error that occurs due to an infinite loop
- c) A runtime error caused by accessing memory location with a null pointer

d) A logic error resulting from incorrect implementation of conditions

Solution: c) A runtime error caused by accessing memory location with a null pointer

9. Which bug class is most likely to be detected during code reviews or static analysis?

a) Syntax errors

b) Runtime errors

c) Logic errors

d) Boundary errors

Solution: a) Syntax errors

10. What is the primary goal of categorizing bug classes in software development?

a) Identifying the root cause of defects

b) Aiding in effective debugging and prevention strategies

c) Prioritizing bug fixes based on their severity

d) Enhancing code performance and optimization

Solution: b) Aiding in effective debugging and prevention strategies