GOVERNMENT COLLEGE WOMEN UNIVERSITY FAISALABAD



COURSE TITLE: OBJECT ORIENTED PROGRAMMING (OOP)

ROLL NO.: 24145

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CLASS: ADP CS 2ND MA

QUIZ NO.: 2

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Polymorphism

- 1. Static binding in C++ occurs during:
 - a) Runtime
 - b) Compile time
 - c) Linking phase
 - d) Execution
- 2. Function overloading is an example of:
 - a) Dynamic polymorphism
 - b) Static polymorphism
 - c) Virtual functions
 - d) Late binding
- 3. Ambiguity in function overloading can occur due to:
 - a) Default arguments
 - b) Automatic type conversion
 - c) Both a and b
 - d) None of the above
- 4. Dynamic polymorphism is achieved using:
 - a) Function overloading
 - b) Operator overloading
 - c) Virtual functions
 - d) Templates
- 5. Object slicing happens when:
 - a) A derived class object is assigned to a base class object
 - b) A base class pointer points to a derived class
 - c) A virtual function is overridden
 - d) An abstract class is instantiated
- 6. Late binding refers to:
 - a) Resolving function calls at compile time
 - b) Resolving function calls at runtime
 - c) Early optimization
 - d) Static type checking
- 7. A pure virtual function is declared using:
 - a) = 0
 - b) = virtual

	c) = abstract d) override
8.	Abstract classes cannot: a) Have member functions b) Be inherited c) Be instantiated d) Have constructors
9.	Which is not true about virtual functions? a) They enable runtime polymorphism b) They use the virtual keyword c) They are resolved at compile time d) They require a base class pointer
10	 Method overriding requires: a) Same function name and parameters b) Inheritance c) Both a and b d) Operator overloading
Opera	tor Overloading
11	. The this pointer refers to: a) Current object b) Parent class c) Global variables d) Static members
12	 To overload the + operator as a member function, the syntax is: a) returnType operator+(arguments) b) returnType operator+() const c) friend returnType operator+(arguments) d) returnType +operator(arguments)
13	Which operator cannot be overloaded?a) +b) ::c) <d) ==

d) A virtual function
 15. The -> operator is overloaded to: a) Access class members b) Dereference pointers c) Allocate memory d) Perform arithmetic
16. Which is true about non-member operator functions?a) They can access private membersb) They must be declared as friendc) They use the this pointerd) They replace member functions
17. The correct way to chain function calls using this is:a) Return voidb) Return *this by referencec) Return a new objectd) Use static casting
18. Which operator is overloaded for array indexing?a) ()b) []c) ->d) *
19. To overload the pre-increment operator, use:a) operator++()b) operator++(int)c) ++operator()d) operator+()
 20. When overloading =, you should: a) Handle self-assignment b) Return by value c) Use default parameters d) Make it a friend function

14. Overloading << for output requires:

a) A member functionb) A friend functionc) A static function

Exception Handling

a) catchb) throwc) finallyd) except

a) raise

21. The try block is followed by:

22. Exceptions are thrown using:

	b) throw c) catch d) try
23	3. If a derived class exception is caught by a base class catch block: a) It works due to polymorphism b) It causes a compilation error c) It results in object slicing d) Both a and c
24	A. The correct order of catch blocks should be: a) Base class first b) Derived class first c) Alphabetical order d) Doesn't matter
25	 a) It throws no exceptions b) It throws all exceptions c) It catches exceptions d) It rethrows exceptions
26	6. Rethrowing an exception is done using: a) throw; b) throw exception; c) catch() d) try
27	7. Resource Acquisition Is Initialization (RAII) is used to: a) Allocate memory b) Manage resources via object lifetimes

- c) Handle syntax errors
- d) Overload operators
- 28. Which is **not** a standard exception?
 - a) std::runtime_error
 - b) std::logic_error
 - c) std::file_error
 - d) std::bad_alloc
- 29. The catch(...) block:
 - a) Catches all exceptions
 - b) Catches no exceptions
 - c) Catches syntax errors
 - d) Is invalid syntax
- 30. If an exception is not caught, it results in:
 - a) Compilation error
 - b) Runtime termination
 - c) Memory leak
 - d) Silent failure

Answer Key

- 1. b) Compile time
- 2. b) Static polymorphism
- 3. c) Both a and b
- 4. c) Virtual functions
- 5. a) A derived class object is assigned to a base class object
- 6. b) Resolving function calls at runtime
- 7. a) = 0
- 8. c) Be instantiated
- 9. c) They are resolved at compile time
- 10. c) Both a and b
- 11. a) Current object
- 12. a) returnType operator+(arguments)
- 13. b) ::
- 14. b) A friend function
- 15. a) Access class members
- 16. b) They must be declared as friend
- 17. b) Return *this by reference
- 18. b) []
- 19. a) operator++()
- 20. a) Handle self-assignment
- 21. a) catch
- 22. b) throw
- 23. d) Both a and c
- 24. b) Derived class first
- 25. a) It throws no exceptions

