WAYGROUND **Worksheets**
formerly Quizizz

Java Test4
Total questions: 50
Worksheet time: 25mins
Instructor name: Prof. Harish T. Gwalani

Name

Class

Date

1. What is inheritance in Java?

    a) Code duplication

    b) Acquiring properties of one class into another

    c) Multiple method calling

    d) Overloading methods

2. Which keyword is used to inherit a class in Java?

    a) implements

    b) import

    c) extends

    d) inherits

3. Which keyword is used to refer to the immediate parent class?

    a) base

    b) this

    c) parent

    d) super

4. What does the 'final' keyword mean when applied to a variable?

    a) It can be changed

    b) It can be inherited

    c) It is temporary

    d) It cannot be changed

5. Which class cannot be extended in Java?

    a) static class

    b) abstract class

    c) interface

    d) final class

6. What is an abstract class?

    a) A class with only private members

    b) A class that cannot be instantiated

    c) A class that can only contain variables

    d) A class with no name

7. What is an interface?

    a) A blueprint of a class with abstract methods

    b) A final class

    c) A class with methods

    d) An enum

8. Which keyword is used to define an abstract class?

   a) class   b) interface

   c) abstract   d) final

9. Which keyword prevents method overriding?

   a) final   b) abstract

   c) static   d) super

10. Can an abstract class have constructors?

   a) Only static   b) Only private

   c) Yes   d) No

11. Can a final method be overridden?

   a) Only in subclasses   b) No

   c) Only if public   d) Yes

12. Can an abstract class have concrete methods?

   a) Yes   b) Only private

   c) Only static   d) No

13. Can a class implement multiple interfaces?

   a) Yes   b) Only two

   c) Only one   d) No

14. Which method type must be implemented when a class implements an interface?

   a) Final   b) Private

   c) Static   d) Abstract

15. What is the default modifier for interface methods in Java 8?

   a) private   b) public abstract

   c) default   d) protected

16. Can we create an object of an abstract class?

   a) Only using new   b) No

   c) Yes   d) Only via interface

17. What is method overriding?

a) Changing return type

b) Using static methods

c) Two methods with same name and signature in different classes

d) Same method name but different parameters

18. What is method overloading?

a) Runtime polymorphism

b) Using multiple classes

c) Two methods with same name but different parameters

d) Abstract method declaration

19. Which keyword is used to inherit from an interface?

a) implements

b) super

c) extends

d) inherits

20. Which access specifier allows inheritance in different packages?

a) protected

b) private

c) default

d) static

21. What is a constructor?

a) A method to initialize an object

b) Used to inherit classes

c) Used in interfaces

d) A method to destroy objects

22. Can constructors be final?

a) Only in abstract classes

b) Yes

c) Only in inner classes

d) No

23. What is the return type of a constructor?

a) none

b) int

c) void

d) no return type

24. Which of these is not a type of inheritance in Java?

a) Multilevel

b) Single

c) Hierarchical

d) Multiple

25.   Why does Java not support multiple inheritance with classes?

a) Faster performance   b) Complexity and ambiguity

c) Security reasons   d) Java syntax rules

26.   What is the use of super()?

a) Call parent constructor   b) Call static method

c) Call own constructor   d) Invoke abstract method

27.   Which of the following cannot be abstract?

a) Class   b) None

c) Method   d) Constructor

28.   Can a constructor be overloaded?

a) Yes   b) Only with final keyword

c) No   d) Only static

29.   What happens if we don't define a constructor?

a) Compiler error   b) Object cannot be created

c) Must extend another class   d) Default constructor is provided

30.   What is the keyword used to stop inheritance?

a) final   b) stop

c) this   d) break

31.   Interfaces can contain?

a) Constants and abstract methods   b) Static classes

c) Only abstract methods   d) Only constants

32.   What is a default method in an interface?

a) Abstract method   b) Method with body in interface

c) Static method   d) Method with default access

33.   Can interface methods be private?

a) No   b) Yes

c) Only in abstract class   d) Only if final

34. Can you extend multiple classes in Java?

a) Only with inner class   b) Yes

c) No   d) Only with interface

35. What type of relationship does inheritance define?

a) Uses-A   b) None

c) Has-A   d) Is-A

36. What happens when two interfaces have same method signature and a class implements both?

a) It inherits both   b) Runtime error

c) Compiler error   d) One must override it

37. What is diamond problem in Java?

a) Interface error   b) Polymorphism bug

c) Array issue   d) Inheritance conflict in multiple classes

38. Which one is true about interface variables?

a) They are protected   b) They are public and non-final

c) They are public static final   d) They are private

39. Can an interface extend another interface?

a) Yes   b) No

c) Only with abstract methods   d) Only one

40. Can abstract class implement an interface?

a) Yes   b) No

c) Only if no abstract methods   d) Only if public

41. Can abstract class extend another abstract class?

a) Only one level   b) No

c) Yes   d) Only if final

42. Can a final class have a constructor?

a) No   b) Only static

c) Only default   d) Yes

43. If class A extends B and B extends C, then which class is the super class of A?

    a) B   b) A

    c) C   d) Object

44. How many interfaces can a class implement?

    a) Only 1   b) Only 2

    c) Unlimited   d) None

45. What is true about final parameters?

    a) Can be changed   b) Must be initialized

    c) Only used in constructors   d) Cannot be initialized

46. Which of these allows multiple inheritance?

    a) Final method   b) Class

    c) Constructor   d) Interface

47. Can we use abstract and final together?

    a) Only with classes   b) No

    c) Only with constructors   d) Yes

48. Which interface method types are allowed from Java 8?

    a) Only abstract   b) Abstract and static

    c) Static, default, private   d) Only private

49. Can static method be abstract?

    a) Only in interface   b) No

    c) Yes   d) Only in class

50. Which one of these cannot be overridden?

    a) static method   b) all of these

    c) final method   d) private method

Answer Keys

1. b) Acquiring properties of one class into another

2. c) extends

3. d) super

4. d) It cannot be changed

5. d) final class

6. b) A class that cannot be instantiated

7. a) A blueprint of a class with abstract methods

8. c) abstract

9. a) final

10. c) Yes

11. b) No

12. a) Yes

13. a) Yes

14. d) Abstract

15. b) public abstract

16. b) No

17. c) Two methods with same name and signature in different classes

18. c) Two methods with same name but different parameters

19. a) implements

20. a) protected

21. a) A method to initialize an object

22. d) No

23. d) no return type

24. d) Multiple

25. b) Complexity and ambiguity

26. a) Call parent constructor

27. d) Constructor

28. a) Yes

29. d) Default constructor is provided

30. a) final

31. a) Constants and abstract methods

32. b) Method with body in interface

33. b) Yes

34. c) No

35. d) Is-A

36. d) One must override it

37. d) Inheritance conflict in multiple classes

38. c) They are public static final

39. a) Yes

40. a) Yes

41. c) Yes

42. d) Yes

43. c) C

44. c) Unlimited

45. b) Must be initialized

46. d) Interface

47. b) No

48. c) Static, default, private

49. b) No

50. b) all of these