

Name Class Date **Java Test3**

Total questions: 50

Worksheet time: 25mins

Instructor name: Prof. Harish T. Gwalani

1. Which keyword is used to define a class in Java?

- a) define
- b) class
- c) struct
- d) object

2. How do you create an object in Java?

- a) new Object();
- b) Object.create()
- c) object o = new()
- d) create object()

3. Which keyword is used to declare a static variable?

- a) global
- b) static
- c) const
- d) final

4. What is the return type of a constructor?

- a) void
- b) None
- c) It has no return type
- d) int

5. When is a constructor called?

- a) When object is created
- b) When object is deleted
- c) After main method
- d) When class is loaded

6. What is the name of a constructor?

- a) Init
- b) Any name
- c) Object
- d) Same as class

7. How many constructors can a class have?

- a) Only one
- b) None
- c) Any number
- d) Two

8. Can constructors be overloaded?
- a) Yes
  - b) Only if return type differs
  - c) Only static constructors
  - d) No
9. Which method is called before object is destroyed?
- a) delete()
  - b) nullify()
  - c) finalize()
  - d) destroy()
10. Which keyword is used to call superclass constructor?
- a) this
  - b) base
  - c) super
  - d) parent
11. Which block executes first when class is loaded?
- a) Constructor
  - b) Instance block
  - c) Static block
  - d) Main
12. What is the use of static keyword?
- a) To create class
  - b) To define packages
  - c) To define instance
  - d) To share data among objects
13. Can static methods access instance variables?
- a) Only protected
  - b) Yes
  - c) Only final
  - d) No
14. How are static methods called?
- a) Using class name
  - b) Using object
  - c) Using this
  - d) Using new keyword
15. Can static blocks have return statements?
- a) Only in final classes
  - b) Yes
  - c) No
  - d) Only if void
16. Which memory area holds static variables?
- a) Method area
  - b) Stack
  - c) Code cache
  - d) Heap

17. What is the default value of an object reference?
- a) undefined
  - b) null
  - c) 0
  - d) void
18. Can static variables be accessed using object?
- a) Only in static context
  - b) Only in final class
  - c) No
  - d) Yes
19. What happens if no constructor is defined?
- a) Object can't be created
  - b) Default constructor added
  - c) Program crashes
  - d) Compile error
20. What is constructor overloading?
- a) Same name, different return type
  - b) Different name, different class
  - c) Same name, different parameters
  - d) Different name, same parameters
21. Can static methods be overridden?
- a) Only in interface
  - b) Only final methods
  - c) Yes
  - d) No
22. Can constructors be static?
- a) Only in inner classes
  - b) Yes
  - c) Only if final
  - d) No
23. Which constructor is provided automatically by compiler?
- a) Copy constructor
  - b) Default constructor
  - c) Static constructor
  - d) Private constructor
24. Which keyword refers to current object?
- a) self
  - b) this
  - c) instance
  - d) super
25. What is constructor chaining?
- a) Overriding constructor
  - b) Static method call from constructor
  - c) Calling class from constructor
  - d) Calling another constructor using this()

26. Can we declare constructor private?
- a) Only in child class
  - b) Only static
  - c) Yes
  - d) No
27. What is static method?
- a) Used for constructor
  - b) Can override object
  - c) Belongs to class
  - d) Object specific
28. Which keyword prevents inheritance?
- a) final
  - b) default
  - c) static
  - d) abstract
29. Can static method access static variable?
- a) Only inside constructor
  - b) Yes
  - c) Only through object
  - d) No
30. How many static blocks can be defined in a class?
- a) 2
  - b) None
  - c) 1
  - d) Any number
31. Which keyword creates a constant value?
- a) fixed
  - b) const
  - c) static
  - d) final
32. What does the new keyword do?
- a) Returns null
  - b) Deletes object
  - c) Calls method
  - d) Allocates memory
33. What does finalize() method do?
- a) Garbage collection hint
  - b) Throws exception
  - c) Creates object
  - d) Free memory
34. Which constructor is used to create object with values?
- a) Copy
  - b) Default
  - c) Static
  - d) Parameterized

35. What is the use of this() in constructor?
- a) Defines static
  - b) Ends constructor
  - c) Calls another constructor
  - d) Calls superclass
36. What is a default constructor?
- a) Static method
  - b) With parameters
  - c) With no parameters
  - d) Private constructor
37. What is output of static int x = 10; System.out.println(x);
- a) Runtime error
  - b) 10
  - c) Compile error
  - d) 0
38. Can constructor return value?
- a) Only object
  - b) Only void
  - c) No
  - d) Yes
39. Can a class have both static and instance methods?
- a) No
  - b) Yes
  - c) Only final
  - d) Only static
40. Can we use this() and super() together in constructor?
- a) Only in main
  - b) No
  - c) Only in static
  - d) Yes
41. Can constructor be abstract?
- a) Only protected
  - b) No
  - c) Only default
  - d) Yes
42. Can we declare main method static?
- a) No
  - b) Only in public class
  - c) Yes
  - d) Only final
43. What is an object in Java?
- a) Function
  - b) Class
  - c) Variable
  - d) Instance of class

44. What is the purpose of static block?
- a) Create object
  - b) Initialize static data
  - c) Call main
  - d) Terminate program
45. How to call constructor explicitly?
- a) Using super()
  - b) Using class name
  - c) Using new keyword
  - d) Using init()
46. Which modifier is not allowed for constructor?
- a) protected
  - b) public
  - c) static
  - d) private
47. What is the type of method that cannot access this?
- a) Static method
  - b) Constructor
  - c) All methods
  - d) Instance method
48. What is correct way to access static variable?
- a) super.x
  - b) object.x
  - c) this.x
  - d) class.x
49. Which block runs first in Java class execution?
- a) Main
  - b) Constructor
  - c) Static block
  - d) Method
50. Which variable requires an object to access?
- a) Local
  - b) Global
  - c) Static
  - d) Instance

**Answer Keys**

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|---|--|------------------------------------|
| 1. b) class                                     | 2. a) new Object();                    | 3. b) static                       |
| 4. c) It has no return type                     | 5. a) When object is created           | 6. d) Same as class                |
| 7. c) Any number                                | 8. a) Yes                              | 9. c) finalize()                   |
| 10. c) super                                    | 11. c) Static block                    | 12. d) To share data among objects |
| 13. d) No                                       | 14. a) Using class name                | 15. c) No                          |
| 16. a) Method area                              | 17. b) null                            | 18. d) Yes                         |
| 19. b) Default constructor added                | 20. c) Same name, different parameters | 21. d) No                          |
| 22. d) No                                       | 23. b) Default constructor             | 24. b) this                        |
| 25. d) Calling another constructor using this() | 26. c) Yes                             | 27. c) Belongs to class            |
| 28. a) final                                    | 29. b) Yes                             | 30. d) Any number                  |
| 31. d) final                                    | 32. d) Allocates memory                | 33. a) Garbage collection hint     |
| 34. d) Parameterized                            | 35. c) Calls another constructor       | 36. c) With no parameters          |
| 37. b) 10                                       | 38. c) No                              | 39. b) Yes                         |
| 40. b) No                                       | 41. b) No                              | 42. c) Yes                         |
| 43. d) Instance of class                        | 44. b) Initialize static data          | 45. c) Using new keyword           |
| 46. c) static                                   | 47. a) Static method                   | 48. d) class.x                     |
| 49. c) Static block                             | 50. d) Instance                        |                                    |

