



15. Which operator allocates the memory for an object and returns the address of object?  
 a) **new**                      b) object                      c) class                      d) Method
16. What do we call the address of the memory location where the object is stored?  
 a) Address                      b) **Reference**                      c) Allocated                      d) Constant
17. What do we call the special portion of memory where the objects live?  
 a) Reference                      b) **Heap**                      c) Address                      d) Structure
18. When an object is created, then which special method is executed to perform initial task?  
 a) **Constructor**                      b) Method                      c) Attributes                      d) Function
19. Which constructor is called with empty parentheses without arguments?  
 a) Object constructor                      b) **default constructor**  
 c) Method                      d) Parameterized constructor
20. When statement “r1=new Room( );” is executed then what is stored in r1?  
 a) **Address of an object**                      b) Reference of an object  
 c) Heap                      d) All of these
21. Which of the following is the correct syntax to declare and create an object in a single line?  
 a) **Room r2=new Room( );**                      b) room r=room();  
 c) Room r1=room()                      d) Room =Room(new);
22. In Java, which of the following looks for unused objects and reclaims the memory that those objects are using?  
 a) Variable collector                      b) **Garbage collector**  
 c) Class collector                      d) Object collector
23. In Java, creating an object with ‘new’ key word is also called object .....  
 a) Declaration                      b) **Instantiation**                      c) Initialization                      d) All of these
24. Which type of variables is created at the time of creating an object and stay throughout the life of the objects ?  
 a) Local                      b) **Instance**                      c) Static                      d) null
25. Which type of variable is define by the attributes of an object?  
 a) Local                      b) **Instance**                      c) Static                      d) null
26. In Java,.....can be defined inside a class only.  
 a) **method**                      b) class                      c) Attributes                      d) State
27. All instance of class are allocated memory in which data structure?  
 a) **heap**                      b) constructor                      c) Inherit                      d) Overload
28. Write down the syntax of accessing and calling instance variable.  
 Ans. **<object reference> . <instance variable or method>**

29. What is the associativity of dot operator?  
 a) **L to R**                      b) R to L                      c) T to B                      d) B to T
30. Instance variables and instance methods can be referred by using .....operators.  
 a) **dot ( . )**                      b) comma( ' )                      c) semicolon( ; )                      d) colon( : )
31. Referring instance variable or invoking method with null reference will give .....:  
 a) output                      b) **Error**                      c) Object                      d) Class
32. Instance methods are used to define .....of an object.  
 a) Attribute                      b) **Behavior**                      c) state                      d) Functions
33. Variable belongs to a class and not to an .....  
 a) Attribute                      b) **Object**                      c) Behavior                      d) method
34. Which variables are called the class variable can be declared within class using static keyword before data type ?  
 a) Memory                      b) **static**                      c) local                      d) instance
35. What do we call the variables that defined inside methods or blocks?  
 a) **Local variable**                      b) Class variable                      c) Static variable                      d) Instance variable
36. What do we call the variables that are defined within a class but outside any method?  
 a) **Instance variable**                      b) Class variable                      c) Static variable                      d) Local variable
37. Which variables are initialized with default value?  
 a) **Instance and class variable**                      b) Class and local variables  
 c) class and static variable                      d) Static and Instance variable
38. What do we call the term where different forms of methods are used with same name?  
 a) **Polymorphism**                      b) Inheritance                      c) constructor                      d) Aggregation
39. The word .....means many forms.  
 a) **Polymorphism**                      b) Inheritance                      c) constructor                      d) Aggregation
40. Which term means, different methods that have the same name but a different signature?  
 a) **Method overloading**                      b) Inheritance                      c) Constructor                      d) Aggregation
41. Which of the following are the steps to create Polymorphism?  
 a) Method name                      b) type of return value                      c) a list of parameters                      d) **All of these**
42. What do we call the special method that is invoked when a new object is created?  
 a) Polymorphism                      b) **Constructor**                      c) Inheritance                      d) All of these

43. Every class is having its default .....
- a) Polymorphism    b) **Constructor**    c) Inheritance    d) All of these
44. Which type of constructor does not take any argument?
- a) Default    b) Parameterized    c) **Multi level**    d) Multiple
45. Which is mainly designed to perform initializing actions?
- a) **Constructor**    b) Polymorphism    c) Inheritance    d) All of these
46. Constructor does not have .....type.
- a) **return**    b) void( )    c) default    d) All of these
46. Constructor is invoked implicitly only when an object is constructed using .....operator.
- a) **new**    b) default    c) new( )    d) +
47. Constructor must have the .....name as class name.
- a) **same**    b) new name    c) different    d) default
48. Which of the following is the correct for the Constructor?
- Constructor must have the same name as class name.
  - Constructor does not have return type.
  - Constructor is invoked implicitly only when an object is constructed using new operator.
  - Constructor can not be invoked explicitly elsewhere in the program.
  - constructor can be invoked implicitly.
- a) **i, ii, iii, iv**    b) i, ii, v, iii    c) v, i ,iv, iii    d) v, i, iii,,iv
49. Access control means to control .....
- a) **visibility**    b) program    c) Objects    d) Attributes
50. In absence of user define constructor in a class, objects are constructed using which type of constructor?
- a) **Default**    b) no – argument    c) Parameterized    d) multilevel
51. Which of the following is known as a user-defined no-argument constructor?
- a) <classname> {} [ ] ;    b) **<classname> ( ) {};**  
 c) <classname> ( ) [ ] ;    d) <classname> [ ] ( ) ;
52. Which of the following is the meaning of polymorphism?
- a) Single form    b) Post text    c) Post morphism    d) **Many forms**
53. What is known as visibility modifier?
- a) **Access modifier**    b) Constructor    c) Polymorphism    d) Inheritance
54. Which of the following is a part of Four P's Protection in Java?
- a) Private    b) Package, Protected    c) Public    d) **All of these**
55. Which of the following is not a part of Four P's protection in Java?
- a) public    b) package    c) private    d) **provided**

56. Which type of access modifiers are used before the type of variable or method?  
 a) public                      b) protected                      c) private                      d) **All of these**

57. Which of the following access modifier is used to organized classes?  
 a) Public                      b) **Package**                      c) Private                      d) Protected

58. Write down the syntax of package.  
 Ans. **package <packageName>;**

59. Which access modifier provides visibility to classes defined in the other package?  
 a) **public**                      b) package                      c) Private                      d) Protected

60. To provide public access, which keyword type before method or variable type?  
 a) Private                      b) **Public**                      c) Protected                      d) Package

61. Public variables and methods are .....anywhere.  
 a) **visible**                      b) invisible                      c) outside                      d) inside

62. Which of the following is the highest level of protection in Java?  
 a) **Private**                      b) Package                      c) Public                      d) Protected

63. What is the other name of mutator method?  
 a) set                      b) **setter**                      c) getter                      d) get

64. What is the other name for accessor method.  
 a) get                      b) **getter**                      c) setter                      d) set

65. Match the correct access modifier with its visibility.

Access modifier	Visibility
1 public	A → → →
2 Default: package	B narrowest
3 protected	C widest
4 private	D → →

a) **(1-C, 2-A,3-D, 4-B)**                      b) (1-C, 2-D, 3-A, 4-B)

66. Which level of protection is used to allow the access only to subclasses or to share with the methods declared as “friend”?  
 a) public                      b) **protected**                      c) Private                      d) Package

67. Which keyword is used to share data of private class?  
 a) **friend**                      b) extends                      c) throw                      d) get

68. Which protection level cannot be seen by any other class?  
 a) **Private**                      b) Protected                      c) Public                      d) Package

69. If we want private data to be used by other, then which method is used?  
 a) **accessor**      b) access      c) excess      d) mutator
70. If we want to allow private data to be modified by others, then which method is used?  
 a) accessor      b) access      c) excess      d) **mutator**
71. Which of the following prefix is utilize for conventionally naming of mutator method?  
 a) wait      b) **set**      c) get      d) take
72. Which of the following prefix is utilize for conventionally naming of accessor method?  
 a) wait      b) set      c) **get**      d) take
73. If we want to allow other methods to read only the data value, then which method is used?  
 a) **getter**      b) get      c) set      d) setter
74. If we want to allow other methods to modify the data value, then which method is used?  
 a) getter      b) get      c) set      d) **setter**
75. Find the valid getter or setter names from the list.  
 (1) getLength (2) GetLength (3) getlength (4) setLength (5)SetLength (6) setAttribute  
 a) 1,3,4,6      b) **1,4,6**      c) 1,2,3,4      d) 1,3,4,6
76. Which facility allows us to build new class with added capabilities by extending existing class?  
 a) **Inheritance**      b) Constructor      c) Polymorphism      d) Aggregation
77. Inheritance model is based on which type of relationship between two classes?  
 a) has - a - part      b) is - a - kind      c) is-a-kind-of      d) **both b or c**
78. In inheritance, Parent class is also referred to as.....class.  
 a) super      b) base      c) sub      d) **both a and b**
79. In inheritance, Child class is also referred to as .....class.  
 a) sub      b) derived      c) extended      d) **All of these**
80. In which class common features are kept?  
 a) **super**      b) extended      c) sub      d) None of above
81. Which class inherits all instance variables and methods from super class, and it may have its own added variables and methods?  
 a) Base class      (b) **Subclass**      c) Sub class      d) None of above

82. What is not inherited in sub class?  
 a) **Constructor**    b) Method    c) Polymorphism    d) Super class
83. Which keyword is used to create a subclass in the class definition?  
 a) derived    b) **extends**    c) Super    d) new
84. Which keyword is used to call the constructor of super class in the constructor of sub class?  
 a) extends    b) **super**    c) extends    d) new
85. When super class and sub class have methods with same signature, a super class method is said to be ..... in the sub class.  
 a) overloading    b) **overridden**    c) operator loading    d) None of above
86. All instance variable and methods are inherited from super class to .....class.  
 a) **sub**    b) Parent    c) super    d) new
87. Java does not support .....type of inheritances.  
 a) **multiple**    b) Single    c) multi level    d) constructor
88. A subclass can be derived from only the .....class.  
 a) **Super**    b) new    c) Extended    d) sub
89. Which of the following are the construction of classes that incorporate other objects. They establish a “has-a” relationship between classes?  
 a) Composition    b) aggregation    c) Constructor    d) **Both a or b**
90. Composition & aggregation establish which type of relationship between classes?  
 a) has – a – part    b) has – a    c) is-a-kind-of    d) **Both a or b**
91. Which symbol is used in Inheritance?  
 a) **Arrow ↑**    b) Circle    c) Diamond    d) Triangle

### Textbook Exercise

1. Which of the following defines attributes and methods?  
 a) **Class**    b) Object    c) Instance    d) Variable
2. Which of the following keyword is used to declare class variables and class methods?  
 a) **static**    b) private    c) public    d) package
3. Which of the following operator creates an object and returns its reference?  
 a) dot ( . )    b) **new**    c) colon ( : )    d) assignment (=)

4. Which method can be called without creating an instance of a class?  
a) Instance method b) **Class Method** c) Constructor method d) All of the above
5. Which of the following refers more than one method having same name but different parameters?  
a) **Overloaded methods** b) Overridden methods  
c) Duplicate methods d) All
6. Which method is invoked automatically with creation of an object?  
a) Instance method b) **Constructor** c) class method d) All of the above
7. Which of the following is the keyword used to refer a superclass constructor in subclass constructor?  
a) extends b) **super** c) name of the superclass d) new
8. Which of the following is used to invoke an instance method in Java?  
a) The name of the object, colon( : ) and the name of the method.  
b) **The name of the object, dot (.) and the name of the method.**  
c) The name of the class, colon( : )and the name of the method  
d) The name of the class, dot ( . ) and the name of the method
9. Which of the following is accessible by instance methods?  
a) Only instance variables b) Only class variables  
c) **Both instance variables and class variables** d) Constructor
10. When method in the superclass and subclass have same name and signature, what are they called?  
a) Overloaded methods b) **Inherited methods**  
c) Inherited methods d) All of the above.