Chap-1

1. Which concept of Java is achieved by combining methods and attribute into a class?

**A. Encapsulation**

**B.** Inheritance

**C.** Polymorphism

**D.** Abstraction

**2.** Which of the following concepts determining at runtime what method to invoke?

**A.** Data hiding

**B.** Dynamic Typing

**C. Dynamic binding**

**D.** Dynamic loading

3. Among the following which one is not a feature of OOP in general definitions?  
a) Efficient Code  
b) Code reusability  
c) Modularity  
**d) Duplicate/Redundant data**

4. The first purely object oriented programming language developed is....  
a) Kotlin  
b) **SmallTalk**  
c) Java  
d) C++

5. An invariant is termed as........

**a. A property of a program that is always true.**

b. A property of a program which can never be true.

c. Some times true sometimes falls.

d. None of these

6. Choose which among the following is true.

a. ADT preserves its own invariants.

b. String type guarantees that it will be immutability.

**c. both a and b**

d. None

7. **Representation exposure is meant to be ........**

**a. Code outside the class can modify the representation directly.**

b. Code outside the class cannot modify the representation directly.

c. code outside the class can modify the representation directly with the help of variant.

d. None

8. A **concrete class** is a class having......

a. **Implementation for all of its methods**.

b. Implementation for only non abstract methods.

c. Implementation for all of only constructors.

d. None

9. Which of the is the legal abstract class definition.

A.class A { abstract void unfinished() { } }



B.class A { abstract void unfinished(); }



C.**abstract class A { abstract void unfinished(); }**



D.public class abstract A { abstract void unfinished(); }



10. Suppose A is an abstract class and B is a concrete subclass of A and both A and B have default constructor. Which of the following is correct.

1. A a=new A()

2. A a=new B()

3. B b=new A()

4. B b=new B()

1. 1 and 2
2. **2 and 4**
3. 3 and 2
4. 3 and 4

**Chapter 2**

1. Which of the following comes under minor element in object oriented programming concept.
2. **Typing, concurrency**
3. Inheritance, typing, persistence
4. Concurrency, persitance, polymorphism
5. Concurrency, encapsulatoion, typing
6. According to Grady Booch’s statement hierarchy is termed as…….
7. Decomposing a problem into small pattern
8. **Ranking or ordering of abstraction**
9. Concept of code reusability
10. None of these
11. Part of relation is the another name of …..
12. **Decomposition**
13. Aggregation
14. Association
15. Both a and b

##### Encapsulation concept in java is

1. **Hiding complexity**
2. method hiding
3. Hiding constructor
4. None

##### Following concept can be used for encapsulation in java programs

1. Wrapping data fields with methods
2. Hiding data and internal methods using access modifiers in a class
3. Using Interfaces
4. **All of the above**

##### 5. IS-A relationship in java is related to

1. **Inheritance**
2. Encapsulation
3. Composition
4. None

**6.** Which of the following option leads to the portability and security of Java?

a. **Bytecode is executed by JVM**

b. The applet makes the Java code secure and portable

c. Use of exception handling

d. Dynamic binding between objects

7. The feature by which one object can interact with another object is \_\_\_\_\_\_\_\_\_\_\_\_\_  
a) Message reading  
b) **Message Passing**c) Data transfer  
d) Data Binding

8. The property of an object is

a. State, space, behaviour

b. state, identity

c. both a and b

d. None

9. Which among the following signifies the property ‘behaviour’ of an object…

a. method

b. class

c. reference variable

d. None

10. **Which feature comes under compile time polymorphism?**

a. Method overloading

b. Constructor overloading

c. Method overriding

d. **Both A and B**

11. **To successfully overload a method in Java, the return types must be \_\_\_.**

a. Same

b. Different

c. **Same but using superclass or subclass types also work**

d. None

12. **What is the output of the below Java program with method overloading?**

class Wood{ }

class SubWood extends Wood{ }

public class MethodOverloading3

{

Wood display(int a)

{

System.out.println("PINE");

return new Wood();

}

SubWood display()

{

System.out.println("TEAK");

return new SubWood();

}

public static void main(String[] args)

{

MethodOverloading3 m = new MethodOverloading3();

m.display();

}

}

A) PINE

B) **TEAK**

C) Compiler error

D) None

**13. Which is the overloaded static method of Math class to get absolute value in Java?**

A) Math.abs(int)

B) Math.abs(float)

C) Math.abs(double)

D) **All the above**

14. **All the wrapper classes (Integer, Boolean, Float, Short, Long, Double and Character) in Java are \_\_\_\_\_\_\_\_\_\_\_\_\_**

* 1. Private
  2. Serializable
  3. **Final**
  4. Immutable

|  |
| --- |
| 15. Which is true about a method-local inner class? |
| |  |  | | --- | --- | | [**A.**](javascript:%20void%200;) | It must be marked final. | | [**B.**](javascript:%20void%200;) | **It can be marked abstract.** | | [**C.**](javascript:%20void%200;) | It can be marked public. | | [**D.**](javascript:%20void%200;) | It can be marked static. | |

**Chapter 3**

1. **A class member declared protected becomes member of subclass of which type?**

public member  
**B.** **private member**  
**C.** protected member  
**D.** static member

1. A. public class Circle implements Shape

{

private int radius;

}

B. public abstract class Circle extends Shape

{

private int radius;

}

C. public class Circle extends Shape

{

private int radius;

public void draw();

}

D. public abstract class Circle implements Shape

{

private int radius;

public void draw();

}

E. public class Circle extends Shape

{

private int radius;

public void draw()

{

/\* code here \*/

}

}

F. public abstract class Circle implements Shape

{

private int radius;

public void draw()

{

/\* code here \*/

}

}

* 1. **B,E**  
     **B.** A,C  
     **C.** C,E  
     **D.** T,H

##### Order of execution of constructors in Java Inheritance is

* 1. **Base to derived class**
  2. Derived to base class
  3. Random order
  4. None

1. class Animal{

public Animal(){

System.out.println("Base Constructor");

}

}

class Cat extends Animal{

public Cat(){

System.out.println("Derived Constructor");

}

}

public class Program {

public static void main(String[] args) {

Cat c = new Cat();

}

}

1. Base Constructor  
   Derived Constructor
2. Base Constructor
3. Derived constructor
4. Compile time error
5. Java can be executed without main if it has static block.
   1. True
   2. False
   3. **Not true all version**
   4. Cannot validate
6. Which of these keywords can be used to prevent Method overriding?  
   a) static  
   b) constant  
   c) protected  
   **d) final**
7. At line number 2 in the following code, choose 3 valid data-type attributes/qualifiers among “final, static, native, public, private, abstract, protected”
8. **public** **interface** Status
9. {
10. */\* insert qualifier here \*/* **int** MY\_VALUE = 10;
11. }

a) final, native, private  
b) final, static, protected  
c) final, private, abstract  
**d) final, static, public**

8. What will be the output of the following Java program?

1. **class** Alligator
2. {
3. **public** **static** **void** main(String[] args)
4. {
5. **int** []x[] = {{1,2}, {3,4,5}, {6,7,8,9}};
6. **int** [][]y = x;
7. System.out.println(y[2][1]);
8. }
9. }

a) 2  
b) 3  
**c) 7**d) Compilation Error

What will be the output of the following Java program?

**final** **class** A

{

**int** i;

}

**class** B **extends** A

{

**int** j;

System.out.println(j + " " + i);

}

**class** inheritance

{

**public** **static** **void** main(String args[])

{

B obj = **new** B();

obj.display();

}

}

1. 2 2  
   b) 3 3  
   c) Runtime Error  
   **d) Compilation Error**

What will be the output of the following Java program?

1. **class** Abc
2. {
3. **public** **static** **void** main(String[]args)
4. {
5. String[] elements = { "for", "tea", "too" };
6. String first = (elements.length > 0) ? elements[0]: **null**;
7. }
8. }

a) Compilation error  
b) An exception is thrown at run time  
c) The variable first is set to null  
d**) The variable first is set to elements[0]**

**10. method hiding factor is defined as …….**

* 1. The degree invisibilities of methods in classes.
  2. redundancy of methods in classes
  3. code reusability
  4. None of the above

**11.** Which keyword is used by the method to refer to the object that invoked it?  
a) import  
b) catch  
c) abstract  
**d) this**

**12.** Which function is used to perform some action when the object is to be destroyed?  
a) **finalize()**b) delete()  
c) main()  
d) none of the mentioned.

13. What will be the output of the following Java code?

class San

{

San()throws IOException

{

}

}

class Foundry extends San

{

Foundry()

{

}

public static void main(String[]args)

{

}

}

a)**compile time error**b) run time error  
c) compile and runs fine  
d) unreported exception java.io.IOException in default constructor

**14. class exception\_handling**

**{**

**public static void main(String args[])**

**{**

**try**

**{**

**System.out.print("Hello" + " " + 1 / 0);**

**}**

**catch(ArithmeticException e)**

**{**

**System.out.print("World");**

**}**

**}**

**}**

a. Hello

b. HelloWorld

c. **World**

d. Hello World

15. Which of the following statements are incorrect?  
a) public members of class can be accessed by any code in the program  
b) private members of class can only be accessed by other members of the class  
**c) private members of class can be inherited by a subclass, and become protected members in subclass**d) protected members of a class can be inherited by a subclass, and become private members of the subclass

Chap 4

### [1. we can use view state in MVC ?](https://www.onlineinterviewquestions.com/mvc-mcq/" \l "collapseUnfiled4)

a. Yes

b**. No**

c. Sometimes Yes

d. None

**[2. namespace is used for ASPX View Engine.](https://www.onlineinterviewquestions.com/mvc-mcq/" \l "collapseUnfiled6)**

* System.Web.Razor



* **System.Web.Mvc.WebFormViewEngine**



* Both A & B



* None of the above



3. **[In model-view-controller (MVC) architecture, model defines the \_\_\_\_\_\_\_\_\_\_\_\_\_.](https://www.onlineinterviewquestions.com/mvc-mcq/" \l "collapseUnfiled14)**

* Data-access laye



* **Business-logic layer**



* Presentation layer



* Interface layer



4. What allows the programmer to destroy an object x?

A. x.finalize()  
B. x.delete()  
C. Runtime.getRuntime().gc()  
D. **Only the garbage collection system can destroy an object**

**5.** Which of the below is not a memory leak solution?

A. GC parameter tuning  
B. Code changes  
C. **Process restart**D. JVM parameter tuning

Chapter 5

1. Which statement is true?

A. All objects that are eligible for garbage collection will be garbage collected by the garbage collector.  
B. Objects from a class with the finalize() method overridden will never be garbage collected.  
C. Objects with at least one reference will never be garbage collected.  
**D. Objects instantiated within anonymous inner classes are placed in the garbage collectible heap**.

2. **Where are the following four methods commonly used?  
  
1) public void add(Component c)  
2) public void setSize(int width,int height)  
3) public void setLayout(LayoutManager m)  
4) public void setVisible(boolean)**

**a.** Graphics class

**b.** **Component class**

**c.** Both A & B

**d.** None of the above

3. This set of Software Design Multiple Choice Questions & Answers (MCQs) focuses on “Collection Iterator Pattern”.

1. Which of the following are considered as Mid Level design patterns?  
a) Iterator Pattern  
b) Collection Pattern  
c) **All of the mentioned**  
d) None of the mentioned

4.  Which among these are the iteration control facilities?  
a**) Initialize**  
b) Information Hiding  
c) Multiple iterations  
d) All of the mentioned

5. \_\_\_\_\_\_\_\_\_\_\_\_ is a software development activity that is not a part of software processes.  
a) Validation  
b) Specification  
c) Development  
d) **Dependence**

Which of the following is not needed to develop a system design from concept to detailed object-oriented design?  
a) Designing system architecture  
b) Developing design models  
c) Specifying interfaces  
d) **Developing a debugging system**

Which of the following can be included as the collection?  
a) A Set  
b) List  
c) Array  
d) All of the mentioned