

CS504D (FE)

Object-Oriented Programming

Multiple Choice Questions

1. Choose the correct alternatives for any ten of the following:
 - i) The method `int func (int i, int j) { }` can be overloaded using
 - A) `int func (int i, int j, int j) { }`
 - B) `int func (float i, int j) { }`
 - C) `float func (int i, int j) { }`
 - D) `int func (int a, int b) { }`
 - E) `float func (int i, int j, float k) { }`

a) (B) & (C) c) (A), (B), (C) & (E)
b) (C) & (D) d) (A), (B) & (E)
 - ii) What will happen if you compile / run this code?

```
public class Q1 extends Thred
{
    public void run ()
    {
        System.out.println("Before start method");
        this.stop();
    }
    public static void main (String [] args)
    {
        Q1 a = new Q1 ();
        a.start ();
    }
}
```

a) Compilation error at line 7
b) Runtime exception at line 7
c) Prints "Before start method" and "After stop method"
d) Prints "Before start method" only
 - iii) Which view shows how the various executables and other run-time components are mapped to underlying platforms?
 - a) Logical view c) Deployment view
 - b) Implementation view d) Process view
 - iv) Exception is defined in package
 - a) `java.util` c) `java.awt`
 - b) `java.lang` d) `java.io`
 - v) In which class is the `wait ()` method defined?
 - a) Applet c) Thread

- b) Runnable d) Object
- vi) What is an example of polymorphism? c) Method overloading Preferably option-d
- a) Inner class d) Method overriding
- b) Anonymous classes
- vii) switch (i) {
- default:
- System.out.println ("Hello");
- }
- What is the acceptable type (s) for the variable i ?
- a) int c) object Prefer writing int
- b) double d) byte
- viii) Which one of the following is a valid declaration of an applet?
- a) Public class MyApplet extends java.applet.Applet {
- b) Public Applet MyApplet {
- c) Public class MyApplet extends applet implements Runnable {
- d) Abstract class MyApplet extends applet implements Runnable {
- e) Class MyApplet implements Applet {
- ix) Which of the options matches the following line:
- a) method c) message Ambiguous QS
- b) inheritance d) polymorphism
- x) Relation name aggregation means
- a) association between two logically unrelated classes
- b) inheritance
- c) Part – of
- d) none of these

Short Answer Type Questions

2. Differentiate between the following:
 - a. Abstract class and interface
 - b. Static and final keywords
 - c. Method overloading and method overriding
 - d. instant variable and class variable
 - e. Object and object reference
 3. Discuss Applet life-cycle indicating the functions.
 4. What is JVM? What do you mean by Java is a platform independent language?
 5. a) Why do we overload a constructor? Explain
 - b) Explain what will be the output of the following code with justification:
- ```
public class test {
 public static void main (string args []) {
```