

Name :

Roll No. :

Invigilator's Signature :

CS/B.TECH/CSE (NEW)/SEM-5/CS-504 D/2013-14

2013

OBJECT ORIENTED PROGRAMMING

Time Allotted : 3 Hours

Full Marks : 70

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

GROUP - A

(Multiple Choice Type Questions)

1. Choose the correct alternatives for the following :

$$10 \times 1 = 10$$

- i) Which three form part of correct array declarations ?

1. public int a []
2. static int [] a
3. public [] int a
4. private int a [3]
5. private int [3] a []
6. public final int [] a

- | | |
|------------|-------------|
| a) 1, 3, 4 | b) 2, 4, 5 |
| c) 1, 2, 6 | d) 2, 5, 6. |

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[Turn over

ii) public class Test {}

What is the prototype of the default constructor ?

- a) Test ()
- b) Test (void)
- c) public Test ()
- d) public Test (void).

iii) What is the most restrictive access modifier that will allow members of one class to have access to members of another class in the same package ?

- a) public
- b) abstract
- c) protected
- d) synchronized
- e) default access.

iv) Which cause a compiler error ?

- a) int [] scores = {3, 5, 7};
- b) int [] [] scores = {2,7,6}, {9,3,45};
- c) String cats [] = {"Fluffy", "Spot", "Zeus"};
- d) boolean results [] = new boolean [] {true, false, true};
- e) Integer results [] = {new Integer (3), new Integer (5), new Integer (8)};

v) Which three are valid method signatures in an interface ?

1. private int getArea();
 2. public float get Vol(float x);
 3. public void main (String [] args);
 4. public static void main (String [] args);
 5. boolean setFlag (Boolean [] test);
- a) 1 and 2 b) 2, 3 and 5
c) 3, 4, and 5 d) 2 and 4.

vi) You want a class to have access to members of another class in the same package. Which is the most restrictive access that accomplishes this objective ?

- a) public b) private
c) protected d) default access.

vii) class A

```
{  
    protected int method 1 (int a, int b)  
    {  
        return 0;  
    }  
}
```

Which is valid in a class that extends *class A* ?

- a) public int method 1 (int a, int b) {return 0; }
b) private int method 1 (int a, int b) {return 0; }
c) public short method 1 (int a; int b) { return 0; }
d) static protected int method 1 (int a, int b)
 { return 0; }.

viii) Which is a valid declaration within an interface ?

- a) public static short stop = 23;
- b) protected short stop = 23;
- c) transient short stop = 23;
- d) final void madness (short stop) ;

ix) Which two cause a compiler error ?

- 1. float [] f = new float (3);
 - 2. float f2[] = new float [];
 - 3. float []f1 = new float [3];
 - 4. float f3 [] = new float [3];
 - 5. float f5 [] = {1.0f, 2.0f, 2.0f};
- a) 2, 4
 - b) 3, 5
 - c) 4, 5
 - d) 1, 2.

x) What is the narrowest valid return Type for method A in line 3 ?

public class ReturnIt

{

 return Type method A (byte x, double y)/* Line 3 */

{

 return (long)x/y * 2;

}

}

- a) int
- b) byte
- c) long
- d) double.