

Core-Java Test

Name:
Marks Obtained:
Max Marks: 100

Points to Note:

- 1) No question is optional.
- 2) plan your time well so as to attempt all questions.
- 3) Total time available is 2 hour 30 minutes

Do your Best

	Max-Marks	Marks Obtained
Section A	10	
Section B	60	
Section C	30	

SECTION-A (10 * 1 = 10)

1. Which one of these lists contains only Java programming language keywords?

- A. class, if, void, long, Int, continue
- B. goto, instanceof, native, finally, default, throws
- C. try, virtual, throw, final, volatile, transient
- D. strictfp, constant, super, implements, do
- E. byte, break, assert, switch, include

2. interface Base

```
{  
    boolean m1 ();  
    byte m2(short s);  
}
```

which two code fragments will compile?

- 1, interface Base2 implements Base {}
- 2, abstract class Class2 extends Base
 { public boolean m1(){ return true; }}
- 3, abstract class Class2 implements Base {}
- 4, abstract class Class2 implements Base
 { public boolean m1(){ return (7 > 4); }}
- 5, abstract class Class2 implements Base
 { protected boolean m1(){ return (5 > 7) }}

- A. 1 and 2
- B. 2 and 3
- C. 3 and 4
- D. 1 and 5

3. Which two of the following are legal declarations for nonnested classes and interfaces?

- 1, final abstract class Test {}
- 2, public static interface Test {}
- 3, final public class Test {}
- 4, protected abstract class Test {}
- 5, protected interface Test {}
- 6, abstract public class Test {}

- A. 1 and 4
- B. 2 and 5
- C. 3 and 6
- D. 4 and 6

4. What will be the output of the program?

```

class PassS
{
    public static void main(String [] args)
    {
        PassS p = new PassS();
        p.start();
    }

    void start()
    {
        String s1 = "slip";
        String s2 = fix(s1);
        System.out.println(s1 + " " + s2);
    }

    String fix(String s1)
    {
        s1 = s1 + "stream";
        System.out.print(s1 + " ");
        return "stream";
    }
}

```

- A. slip stream
- B. slipstream stream
- C. stream slip stream
- D. slipstream slip stream

5. What will be the output of the program?

```

class Test
{
    static int s;
    public static void main(String [] args)
    {
        Test p = new Test();
        p.start();
        System.out.println(s);
    }

    void start()
    {
        int x = 7;
        twice(x);
        System.out.print(x + " ");
    }

    void twice(int x)
    {
        x = x*2;
    }
}

```

```

    s = x;
}
}

```

- A. 7 7
- B. 7 14
- C. 14 0
- D. 14 14

6. What will be the output of the program?

```

public class If2
{
    static boolean b1, b2;
    public static void main(String [] args)
    {
        int x = 0;
        if ( !b1 ) /* Line 7 */
        {
            if ( !b2 ) /* Line 9 */
            {
                b1 = true;
                x++;
                if ( 5 > 6 )
                {
                    x++;
                }
                if ( !b1 )
                    x = x + 10;
                else if ( b2 = true ) /* Line 19 */
                    x = x + 100;
                else if ( b1 | b2 ) /* Line 21 */
                    x = x + 1000;
            }
        }
        System.out.println(x);
    }
}

```

- A. 0
- B. 1
- C. 101
- D. 111

7. Which of the following would compile without error?

- A. int a = Math.abs(-5);
- B. int b = Math.abs(5.0);
- C. int c = Math.abs(5.5F);
- D. int d = Math.abs(5L);

8. What will be the output of the program?

```
public class ObjComp
{
    public static void main(String [] args )
    {
        int result = 0;
        ObjComp oc = new ObjComp();
        Object o = oc;

        if (o == oc)
            result = 1;
        if (o != oc)
            result = result + 10;
        if (o.equals(oc) )
            result = result + 100;
        if (oc.equals(o) )
            result = result + 1000;

        System.out.println("result = " + result);
    }
}
```

- A. 1
- B. 10
- C. 101
- D. 1101

9. What will be the output of the program?

```
public class ExamQuestion6
{
    static int x;
    boolean catch()
    {
        x++;
        return true;
    }
    public static void main(String[] args)
    {
        x=0;
        if ((catch() | catch()) || catch())
            x++;
        System.out.println(x);
    }
}
```

- A. 1

- B. 2
- C. 3
- D. Compilation Fails

10. What will be the output of the program?

```
public class Test
{
    public int aMethod()
    {
        static int i = 0;
        i++;
        return i;
    }
    public static void main(String args[])
    {
        Test test = new Test();
        test.aMethod();
        int j = test.aMethod();
        System.out.println(j);
    }
}
```

- A. 0
- B. 1
- C. 2
- D. Compilation fails.

SECTION-B (10 * 6 = 60)

- 11. Explain about ExceptionHandling mechanism in java?
- 12. Explain about Multi-Threading concept in java?
- 13. Explain about Collection frame-work in java?
- 14. Explain about Lang package in java?
- 15. Explain about IOStreams in java?
- 16. Explain about the role of Garbage Collection in java?
- 17. Explain about enum's in java?
- 18. Explain about cursors used in Collection frame-work in java?
- 19. Explain about Assertions in java?
- 20. Explain about custom packages in java?

SECTION-C (3 * 10 = 30)

- 21. Write a program in java for storing a object in file and also retriving from a file (Serialization and De-Serialization).
- 22. Write a program in java using HashMap or TreeSet which should retrieve both key-value pair using Iterator interface.
- 23. Write a producer-consumer program in java?