Set (B) Answers

1. Which of the correct syntax to declare a variable in java?
   a) Variablename datatype
   b) datatype variablename
   c) keyword variablename
   d) identifier variable name;

2. Overloading can be achieved ,
   a) Within same class
   b) Different class
   c) Same package.
   d) None of abov

3. What is the correct syntax to create an object of class Test in java?
   a) Test referencevaraible =new Test;
   b) Test referencevaraible =new Test ();
   c) Test =new Test ();
   d) None of above

4. Which of the following is not a keyword in java?
   a) if
   b) final
   c) finally
   d) array

5. What is the output of the following program?

```
class DemoTest
{

  public static void main(String []args)
  {
        int x=10;
        int y=++x;
        System.out.println(y);
        y=x++;
        y++;
        System.out.println(y);
  }
}
```

   a) 10 10
   b) 11 12

c) **11 12**
d) 11 13

6. What is the output of the following program?

```
class Demo {
    public static void main(String a[])
    {
        int x=10;
        int y=x/2;
        float z=y;
        System.out.println(z);
    }
}
```

a) 5
b) **5.0**
c) 0
d) 0.0

7. Which of the following is a not a primitive data types?
   a) float
   b) byte
   c) **String**
   d) Boolean

8. Which is the following is assignment operator?
   a) ==
   b) **=**
   c) &
   d) !

9. Which is the following is equality operator?
   a) **==**
   b) =
   c) ===
   d) $$

10. Find the output:

```
class Test   {
    public static void main(String args[]) {
        int x = 1;
        for (int y = 1;  y < 10; ++y) {
            int z=y/x;
            if(y==5)
                break;
            System.out.print(z + " ");
        }
    }
}
```

a)   1 2 3 4 5 6 7 8 9
b)   1 2 3 4 5
c)   1 2 3 4
d)   Compilation Error

11. Write the error generated line number of the following program.

```
class Test
{
 int x;
 int  Test(String n)        // line 4
 {
            n=x;            // line 5
            return n;       // line 6
 }

 public static void main(String []args)
 {
   Test n = new Test();    // line 10
 }
}
```

Ans: 5,6

12. Given the declaration int a[]={1,2,3,4,5} what is the output of a[-1]?
    a) a
    b) 4
    c) 5
    d) None of above

13. To find the length of array in java we use
    a) Array.length
    b) Array.size()
    c) Array.length()
    d) Array.count()

14. Write the output of the following program.

```
class main_class {
    public static void main(String args[])
    {
        int x=10, y=20;
        int z= x > y ? 10:20;
        System.out.println(z);
    }
}
```

    a) 10
    b) 20
    c) 1020
    d) Compilation Error

15. Instance variable is.
    a) class variable
    b) object variable
    c) static variable
    d) all of above

16. Constructor has
    a) same name as class name and no return type
    b) same name but has return type
    c) same name as object but no return type
    d) none of above

17. choose the correct output of the following program.

```
class Demo{
        int x=20;
        public int get()
        {
                int x=30;
                return x;
        }
        public static void main(String argss[]){
                Test d=new Test();
                System.out.println(d.get());
                System.out.println(d.x);
        }
}
```

a) 20
   30
b) 30
   20
c) Compile Time Error
d) 30
   30

18. Which inheritance in java programming is not directly supported by java class?
    a) Single inheritance
    b) Multilevel inheritance
    c) Multiple inheritance
    d) All of above

19. If class B is subclass from class A then which is the correct syntax?
    a) class B:A{}
    b) class B extends A{}
    c) class B extends class A{}
    d) class B implements A{}

20. Super keyword in java is used to?
    a) Refer immediate parent class instance variables.
    b) Invoke immediate parent class methods.
    c) Invoke immediate parent class constructor.
    d) All

21. Which of these class is related to all the exceptions that cannot be caught?
    a) Error
    b) Exception
    c) Runtime Exception
    d) None of the above.

22. What is the output of this program?

```
class ExceptionHandling{
    public static void main(String args[]) {
      try {
         System.out.print("A");
      } catch(ArithmeticException e) {
        System.out.print("B");
      }finally{
        System.out.print("C");
      }
    }
}
```

    a) A
    b) ABC
    c) AB
    d) AC

23. The class at the top of Exception Hierarchy is
    a) ArithmeticException
    b) Throwable
    c) Object
    d) Exception

24. Choose the best option as output after reading the following program?

```
try {
    int a[]= {1, 2, 3, 4};
    for (int i = 0; i <= 6; i++) {
        System.out.println (a[i]);
    }
} catch (ArrayIndexOutOfBoundsException e) {
    System.out.println ("error = " + e);
} catch (Exception e)  {
    System.out.println ("ArrayIndexOutOfBoundsException");
}
```

    a.   1 2 3 4
    b.   Run time error
    c.   ArrayIndexOutOfBoundsException
    d.   None of the above

25. Can an abstract class define both abstract methods and non-abstract methods?
    a)   No--it must have all one or the other.
    b)   No--it must have all abstract methods.
    c)   Yes--but the child classes do not inherit the abstract methods.
    d)   Yes--the child classes should inherit the abstract method of abstract class.

26. What is the output of the following program?

```
abstract class A   {
    int i;
    abstract void display();
}
 class B extends A  {
    int j;
    void display()  {
       System.out.println(j);
    }
 }
 class Abstract_demo  {
    public static void main(String args[])  {
       B obj = new B();
       obj.j=2;
       obj.display();
    }
 }
```

a) 0
b) 2
c) Runtime Error
d) Compilation Error

27. How many abstract classes can a single program contain?
    a) At most 1
    b) At least 1
    c) At most 127
    d) As many as required

28. Which of the following statements is true?

```
public abstract class Test{
        public abstract int counting(){
           return 20;
        }
}
```

a) The keywords public and abstract cannot be used together.
b) The method counting() must not have a body.
c) Abstract method should use the parameter.
d) Code is correct.

29. Choose the best option based on the following statement.
    I.   Interface may have the constructor.
    II.   Interface is a special class which is fully abstracted.
    a) I- True, II-False
    b) I- False, II-True
    c) I- True, II-True
    d) I- False, II-False

30. Choose the correct option after reading the following program.

```
interface Printable{
        void print();       //line 2
}
interface Showable{
        void show();        //line 5
}
class A7 implements Printable, Showable {                      //line 7
        public void print() { System.out.println("Hello");}              //line 8
        public void show() { System.out.println("Welcome");}          //line 9
        public static void main(String args[]){
                Showable obj = new Showable();            //line 11
                obj.show();
        }
}
```

    a) Line 7 (inheriting interfaces) has syntax error.
    b) Line 2 and line 5 have error.
    c) Line 11 has error.
    d) Output of above program:
       Welcome

31. For every interface written in a java file,
    a) Method should be public and final.
    b) Interface have instance variable.
    c) Both are true.
    d) Both are false.

32. Can a class implement more than one interface?
    a) Yes, But interface should have constructor.
    b) No, multiple inheritance is not possible in java.
    c) Yes, a class can implement more than one interfaces.
    d) No, only interface can extends more than one classes.

33. Examine the following code:

```
import java.util.*;
  class ArrayList
  {
    public static void main(String args[])
    {
      ArrayList obj = new ArrayList();
      obj.add("P");
      obj.add("Q");
      obj.add("R");
      obj.add(0, "S");
      System.out.println(obj);
    }
  }
```

What is the output or error in above program.
   a) [P,Q,R,S]
   b) [S,P,Q,R]
   c) Compilation Error
   d) Cannot be added item at 0 index.

34. Pick up the true statement related to ArrayList.
   a) ArrayList belongs to the package java.io in the java class library.
   b) ArrayList is used to store the numeric values only.
   c) ArrayList is a class.
   d) ArrayList is an interface.

35. Which of these method of ArrayList is used to return the element at the specified position?
   a) return(int pos)
   b) index(int pos)
   c) get(int pos)
   d) Return(int pos)

36. Iterator interface contains following methods.
            i.   boolean hasNext()
            ii.   Object nextElement()
            iii.   void remove()
   a) only i.
   b) only i and ii
   c) only i and iii
   d) All i, ii and iii

37. The following specifies the advantages of
    It is lightweight
    It Supports pluggable look and feel
    It follows MVC (model view controller) architectureGUI
    a) swing
    b) awt
    c) Both a & b
    d) None of the above

38. Followings are the components of javax.swing package.
    a) JFrame, JMenuBar, JMenuItem
    b) JavaFrame, JavaMenuBar, JavaMenuItem
    c) JFrame, JMenuBar, JMenuItems
    d) None of the above

39. Which of the following method should be overridden from ActionListener interface while event handling.
    a) public void actionPerformed(ActionEvent e)
    b) public void actionPerform(ActionEvent e)
    c) public void actionPerformed(Event e)
    d) public void actionPerform(Event e)

40. Which of the following method is used to collect the text from the textbox?
    a) getText()
    b) getString()
    c) getValue()
    d) getTextField()