

## PART-B

### 1. What will be the output of the following Java code?

```
class exception_handling
{
    public static void main(String args[])
    {
        try
        {
            int a = args.length;
            int b = 10 / a;
            System.out.print(a);
            try
            {
                if (a == 1)
                    a = a / a - a;
                if (a == 2)
                {
                    int []c = {1};
                    c[8] = 9;
                }
            }
            catch (ArrayIndexOutOfBoundsException e)
            {
                System.out.println("TypeA");
            }
            catch (ArithmeticException e)
            {
                System.out.println("TypeB");
            }
        }
    }
}
```

- (a) TypeA
- (b) TypeB
- (c) Compile Time Error
- (d) 0TypeB

Ans. C

### 2. What will be the output of the following Java program?

```
interface calculate
{
    void cal(int item);
}
class display implements calculate
{
    int x;
    public void cal(int item)
    {
        x = item * item;
    }
}
```

```

    }
    class interfaces
    {
        public static void main(String args[])
        {
            display arr = new display;
            arr.x = 0;
            arr.cal(2);
            System.out.print(arr.x);
        }
    }
}

```

- (a) 0
- (b) 2
- (c) 4
- (d) None of the mentioned

Ans. C

### 3. What will be the output of following code?

```

class DThread implements Runnable
{
    public void run()
    {
        System.out.println("Run called");
    }
}
class DemoThread
{
    public static void main(String[] args)
    {
        Thread t = new Thread();
        t.start();
        System.out.println("Main method");
    }
}

```

- (a) Run called
- (b) Main method
- (c) Run called Main method
- (d) Compilation error

Ans. A

### 4. Which of following is true about notifyAll()?

- (a) Wakes up all thread that are waiting on this object's monitor
- (b) Wakes up all thread that are not waiting on this object's monitor
- (c) Wakes up only one thread that are waiting on this object's monitor
- (d) Wakes up only two thread that are waiting on this object's monitor

Ans. A

**5. What is the output of the following program?**

```
import java.util.*;

public class priorityQueue {
    public static void main(String[] args)
    {
        PriorityQueue<Integer> queue = new PriorityQueue<>();
        queue.add(11);
        queue.add(10);
        queue.add(22);
        queue.add(5);
        queue.add(12);
        queue.add(2);

        while (queue.isEmpty() == false)
            System.out.printf("%d ", queue.remove());

        System.out.println("\n");
    }
}
```

- a) 11 10 22 5 12 2
- b) 2 12 5 22 10 11
- c) 2 5 10 11 12 22
- d) 22 12 11 10 5 2

Ans. C