

Test Summary

- No. of Sections: 1
- No. of Questions: 20
- Total Duration: 30 min

Section 1 - MCQ

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Additional Instructions:

None

Q1. What is the output of this program?

```
1 class multithreaded_programing
2 {
3     public static void main(String args[])
4     {
5         Thread t = Thread.currentThread();
6         System.out.println(t);
7     }
8 }
9
10 |
```

Thread[5,main]

Thread[main,5]

Thread[main,0]

Thread[main,5,main]

Q2. A thread can be created by

Extending Thread class

Implementing Runnable interface

Using both

None of the above.

Q3. What is the output of this program?

```
1 class newthread implements Runnable
2 {
3     Thread t1,t2;
4     newthread()
5     {
6         t1 = new Thread(this);
7         t2 = new Thread(this);
8         t1.start();
9         t2.start();
10    }
11    public void run()
12    {
```

```
12 {
13     System.out.print(t1.equals(t2));
14 }
15 }
16 public class multithreaded_programing
17 {
18     public static void main(String args[])
19     {
20         new newthread();
21     }
22 }
23
24 |
```

- true
- false
- truetrue
- falsefalse

Q4. Default priority of a java thread is

- 1
- 10
- 0
- 5

Q5. Daemon thread runs in

- Main Thread
- Foreground
- Background
- None of the above

Q6. _____ package contains all of the java's built in exceptions.

- java.io
- java.util
- java.net
- java.lang

```
1 class One extends Thread
2 {
```

```
2  {
3  public void run()
4  {
5      for(int i=0; i<2; i++)
6      {
7          System.out.print(i);
8      }
9  }
10 }
11 public class Test
12 {
13     public static void main(String args[])
14     {
15         Test t = new Test();
16         t.call(new One());
17     }
18     public void call(One o)
19     {
20         o.start();
21     }
22 }
23 |
```

00

01

compilation error

runtime error

Q8. _____ method is used to tell the thread to give up monitor and go to sleep until another thread comes to monitor.

sleep

wait

join

notify

Q9. What is the output of the following program?

```
1 package practiceExercise;
2
3 class MyThread extends Thread
4 {
5     MyThread()
6     {
7         System.out.print(" MyThread");
8     }
9     public void run()
10    {
11        System.out.print(" bar");
12    }
13    public void run(String s)
14    {
15        System.out.println(" baz");
16    }
17 }
18 public class ThreadDemo
19 {
20     public static void main (String [] args)
21     {
22         Thread t = new MyThread()
23         {
24             public void run()
```

```
25     {
26         System.out.println(" foo");
27     }
28 };
29 t.start();
30 }
31 }|
```

foo

foo bar

MyThread foo

MyThread bar

Q10. _____ method is used to keep the thread in running state.

wait

notify

yield

idle

Q11. _____ uses less resource.

Thread

Process

Both use same amount of resources

depends on the thread/process

Q12. _____ is the type of multitasking.

process based

thread based

Process and Thread based

none of the mentioned options

Q13. What is the output of the following java program?

```
1 class ThreadDemo implements Runnable
2 {
3     int x = 0, y = 0;
4     int addX() {x++; return x;}
5     int addY() {y++; return y;}
6 }
```

```

6
7 public void run() {
8     for(int i = 0; i < 10; i++)
9         System.out.println( Thread.currentThread().getName() + ": " +addX() + " " + addY());
10 }
11
12 public static void main(String args[])
13 {
14     ThreadDemo obj1 = new ThreadDemo();
15     ThreadDemo obj2 = new ThreadDemo();
16     Thread t1 = new Thread(obj1);
17     Thread t2 = new Thread(obj2);
18     t1.start();
19     t2.start();
20 }
21 }

```

Will print but may or may not be in an order for Thread t1 and t2 (e.g: 1 1 2 2 1 1 3 3... up to 10 10)

Will print in this order: 1 2 3 4 5 6... 1 2 3 4 5 6...

Will print in this order: 1 1 2 2 3 3 4 4 5 5...

compilation error

Q14. The property of the thread class that gives normal(default) priority of a thread is

NORM_PRIORITY

NORMAL_PRIORITY

Priority(default)

getDefaultPriority

Q15. Which two are valid constructors for Thread?

- 1 Thread(Runnable r, String name)
- 2 Thread()
- 3 Thread(int priority)
- 4 Thread(Runnable r, ThreadGroup g)
- 5 Thread(Runnable r, int priority)

1 and 3

2 and 4

1 and 2

2 and 5

Q16. Which three are methods of the Object class?

- 1 notify();
- 2 notifyAll();
- 3 isInterrupted();

```
3  isInterrupted(),
4  synchronized();
5  interrupt();
6  wait(long msecs);
7  sleep(long msecs);
8  yield();
9  |
```

1, 2, 4

2, 4, 5

1, 2, 6

2, 3, 4

Q17. When a class extends the Thread class ,it should override method of Thread class to start that thread.

start()

run()

init()

go()

Q18. What is the output for the below code ?

```
1  public class Test extends Thread{
2      public static void main(String argv[]){
3          Test t = new Test();
4          t.run();
5      }
6
7      public void start(){
8          for(int i = 0; i < 10; i++){
9              System.out.println("Value of i = " + i);
10         }
11     }
12 }
13 |
```

A compile time error indicating that no run method is defined for the Thread class

A run time error indicating that no run method is defined for the Thread class

Clean compile and at run time the values 0 to 9 are printed out

Clean compile but no output at runtime

Q19. The property of the thread class that gives maximum priority of a thread is

MAX_PRIORITY

MAXIMUM_PRIORITY

Priority(Max)

getMaxPriority

Q20. Which of the following are methods of the Thread class?

- 1) yield()
- 2) sleep(long msec)
- 3) go()
- 4) stop()

1 , 2 and 4

1 and 3

3 only

None of the above

Answer Key & Solution

Section 1 - MCQ

Q1 Thread[main,5,main]

Solution

No Solution

Q2 Using both

Solution

No Solution

Q3 falsefalse

Solution

No Solution

Q4 5

Solution

No Solution

Q5 Background

Solution

No Solution

Q6 java.lang

Solution

No Solution

Q7 01

Solution

No Solution

Q8 wait

Solution

No Solution

Q9 MyThread foo

Solution

No Solution

Q10 wait

Solution

No Solution

Q11 Thread

Solution

No Solution

Q12 Process and Thread based

Solution

No Solution

Q13 Will print but may or may not be in an order for Thread t1 and t2 (e.g: 1 1 2 2 1 1 3 3... up to 10 10)

Solution

No Solution

Q14 NORM_PRIORITY

Solution

No Solution

Q15 1 and 2

Solution

No Solution

Q16 1, 2, 6

Solution

No Solution

Q17 run()

Solution	
No Solution	
Q18	Clean compile but no output at runtime
Solution	
not A and B because run is already defined in thread which is already extended	
Not c because start() not called.	

Q19	MAX_PRIORITY
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Solution	
No Solution	
Q20	1 , 2 and 4
Solution	
No Solution	