HCL TSS ASSESSMENT

# DQ\_CORE\_JAVA\_11

## Q1 SE,Easy

| State which of the following is not true? | | | MC |
| --- | --- | --- | --- |
| Default mark: | | | 1 |
| Shuffle the choices? | | | No |
| Number the choices? | | | A |
| Penalty for each incorrect try: | | | 0 |
| 1. # | Answers | Feedback | Grade |
|  | Runnable interface has abstract run method in it that returns an integer value |  | *100* |
|  | If you write your own exception class extending from Exception then  it comes under category of checked exception |  | *0* |
|  | A dead thread cannot be started |  | *0* |
|  | Thread.sleep() method will move a thread from running to blocked state |  | *0* |
|  | General feedback: |  |  |
|  | For any correct response: | Your answer is correct. |  |
|  | For any incorrect response: | Your answer is incorrect. |  |
|  | Hint 1: |  |  |
|  | Show the number of correct responses (Hint 1): | No |  |
|  | Clear incorrect responses (Hint 1): | No |  |
|  | Tags: |  |  |
| *Allows the selection of a single or multiple responses from a pre-defined list. (MC/MA)* | | |  |

## Q2 SE,Easy

| State which of the following is not true? | | | MC |
| --- | --- | --- | --- |
| Default mark: | | | 1 |
| Shuffle the choices? | | | No |
| Number the choices? | | | A |
| Penalty for each incorrect try: | | | 0 |
| 1. # | Answers | Feedback | Grade |
|  | You use synchronized method so that multiple threads do not enter that method at the same time. |  | 0 |
|  | You can guarantee the exact sequence in which multiple threads will be executed on the CPU. |  | 100 |
|  | You can create thread by creating an object of a class that extends from Thread class and call start() method on it. |  | 0 |
|  | One of the Thread class constructor accepts parameter of type Runnable  Thread(Runnable target); |  | 0 |
|  | General feedback: |  |  |
|  | For any correct response: | Your answer is correct. |  |
|  | For any incorrect response: | Your answer is incorrect. |  |
|  | Hint 1: |  |  |
|  | Show the number of correct responses (Hint 1): | No |  |
|  | Clear incorrect responses (Hint 1): | No |  |
|  | Tags: |  |  |
| *Allows the selection of a single or multiple responses from a pre-defined list. (MC/MA)* | | |  |

## Q3 SE,Medium

| State what will be output for below code?  **public** **class** Main {  **public** **static** **void** main(String[] args) {    LoopThread t = **new** LoopThread();  t.start();    **for**(**int** j=1;j<100;j++)  {  System.***out***.println("Main Thread: j = "+j);  }  }  }  **class** LoopThread **extends** Thread  {    **public** **void** run()  {  **for**(**int** i=1;i<100;i++)  {  System.***out***.println("LoopThread: i = "+i);  }  }  } | | | MC |
| --- | --- | --- | --- |
| Default mark: | | | 1 |
| Shuffle the choices? | | | No |
| Number the choices? | | | A |
| Penalty for each incorrect try: | | | 0 |
| 1. # | Answers | Feedback | Grade |
|  | It will run by switching between two threads and print Main Thread j and Loop Thread i values from 1 to 99. |  | 100 |
|  | Runtime error |  | 0 |
|  | Compiler error |  | 0 |
|  | None of the above |  | 0 |
|  | General feedback: |  |  |
|  | For any correct response: | Your answer is correct. |  |
|  | For any incorrect response: | Your answer is incorrect. |  |

## Q4 SE,Difficult

| State what is output of below code?  **public** **class** Emp {    **private** **int** empid;      Emp()  {  **this**.empid=8;  }    **public** **static** **class** TestCase {    **static** **void** meth1()  {  System.***out***.println("static meth1 in static inner class "+this.empid);    }      }  }  **class** A  {  **public** **static** **void** main(String[] args)  {  Emp.TestCase.*meth1*();  }  } | | | MC |
| --- | --- | --- | --- |
| Default mark: | | | 1 |
| Shuffle the choices? | | | No |
| Number the choices? | | | A |
| Penalty for each incorrect try: | | | 0 |
| 1. # | Answers | Feedback | Grade |
|  | Runtime error |  | 0 |
|  | Compiler error - cannot use this in static context |  | 100 |
|  | Program will run successfully and  Print below output on console:-  static meth1 in static inner class 8 |  | 0 |
|  | None of the above |  | 0 |
|  | General feedback: |  |  |
|  | For any correct response: | Your answer is correct. |  |
|  | For any incorrect response: | Your answer is incorrect. |  |
|  | Hint 1: |  |  |
|  | Show the number of correct responses (Hint 1): | No |  |

## Q5 SE,Difficult

| State what is output of below code?  **public** **class** Emp {    **private** **int** empid;      Emp()  {  **this**.empid=8;  }    **public** **static** **class** TestCase {    **static** **void** meth1()  {  System.***out***.println("static meth1 in static inner class");    }      }  }  **class** A  {  **public** **static** **void** main(String[] args)  {  Emp.TestCase.*meth1*();  }  } | | | MC |
| --- | --- | --- | --- |
| Default mark: | | | 1 |
| Shuffle the choices? | | | No |
| Number the choices? | | | A |
| Penalty for each incorrect try: | | | 0 |
| 1. # | Answers | Feedback | Grade |
|  | Code will run and print the output:  static meth1 in static inner class |  | 100 |
|  | Runtime error |  | 0 |
|  | Compiler error |  | 0 |
|  | None of the above |  | 0 |
|  | General feedback: |  |  |

## Q6 SE,Easy

| State which of the following is not true? | | | MC |
| --- | --- | --- | --- |
| Default mark: | | | 1 |
| Shuffle the choices? | | | No |
| Number the choices? | | | A |
| Penalty for each incorrect try: | | | 0 |
| 1. # | Answers | Feedback | Grade |
|  | Thread.currentThread().getName() can be used to print the name of thread that’s executing on the cpu at that point in time. |  | 0 |
|  | When thread wakes up from Thread.sleep() method it goes directly into running state. |  | 100 |
|  | Thread goes from new to ready state when you call start() method on it |  | 0 |
|  | When thread comes out of blocked state it goes to ready state instead of running state. |  | 0 |
|  | General feedback: |  |  |
|  | For any correct response: | Your answer is correct. |  |

## Q7 SE,Easy

| State which of the following is true? | | | MC |
| --- | --- | --- | --- |
| Default mark: | | | 1 |
| Shuffle the choices? | | | No |
| Number the choices? | | | A |
| Penalty for each incorrect try: | | | 0 |
| 1. # | Answers | Feedback | Grade |
|  | throw clause is used to rethrow a partial exception |  | 0 |
|  | throws clause is used mention to compiler that exception will be handled by it’s caller |  | 0 |
|  | throw clause is used to throw a user-defined exception |  | 0 |
|  | All of the above |  | 100 |

## Q8 SE,Medium

| State which of the following is true for below piece of code? (assume proper code is inserted in place of ….)  class Account  {  public void withdraw(int amt)  {  synchronized(this)  {  …..  }  }  } | | | MC |
| --- | --- | --- | --- |
| Default mark: | | | 1 |
| Shuffle the choices? | | | No |
| Number the choices? | | | A |
| Penalty for each incorrect try: | | | 0 |
| 1. # | Answers | Feedback | Grade |
|  | A thread can enter a synchronized block above only if gets lock (monitor) on Account object.  (Note: monitor is another name for object lock) |  | 100 |
|  | Above code will not compile as you cannot use a synchronized block |  | 0 |
|  | Above code will throw exception at runtime |  | 0 |
|  | All of the above are true |  | 0 |
|  | General feedback: |  |  |
|  | For any correct response: | Your answer is correct. |  |
|  | For any incorrect response: | Your answer is incorrect. |  |
|  | Hint 1: |  |  |
|  | Show the number of correct responses (Hint 1): | No |  |
|  | Clear incorrect responses (Hint 1): | No |  |
|  | Tags: |  |  |
| *Allows the selection of a single or multiple responses from a pre-defined list. (MC/MA)* | | |  |

## Q9 SE,Difficult

| State what will be the output for below code?  **public** **class** RunnableThreadEx {  **public** **static** **void** main(String[] args) {  AnotherThread1 ob = **new** AnotherThread1();    Thread t1 = **new** Thread(ob);  t1.start();    **for**(**int** j=1;j<100;j++)  {  System.***out***.println("Main Thread: j = "+j);  }    }  }  **class** AnotherThread1 **implements** Runnable  {  **public** **void** run()  {  **for**(**int** i=1;i<100;i++)  {    Thread.*sleep*(1000);  System.***out***.println("LoopThread: i = "+i);  }    }    } | | | MC |
| --- | --- | --- | --- |
| Default mark: | | | 1 |
| Shuffle the choices? | | | No |
| Number the choices? | | | A |
| Penalty for each incorrect try: | | | 0 |
| 1. # | Answers | Feedback | Grade |
|  | Program will not compile due to unhandled exception type error |  | 100 |
|  | Runtime exception |  | 0 |
|  | Code will run successfully without giving compiler or runtime error |  | 0 |
|  | None of the above |  | 0 |
|  | General feedback: |  |  |
|  | For any correct response: | Your answer is correct. |  |
|  | For any incorrect response: | Your answer is incorrect. |  |
|  | Hint 1: |  |  |

## Q10 SE,Medium

| State what will be the output for below code?  class MainApp  {  public static void main(String[] args)  {  int[] arr = { 3,5,6,7};  if(arr.length > 5)  {  System.out.println(arr[4]);  }  }  } | | | MC |
| --- | --- | --- | --- |
| Default mark: | | | 1 |
| Shuffle the choices? | | | No |
| Number the choices? | | | A |
| Penalty for each incorrect try: | | | 0 |
| 1. # | Answers | Feedback | Grade |
|  | Runtime exception - ArrayIndexOutOfBoundsException |  | 0 |
|  | Program will compile and run successfully but will not print any output |  | 100 |
|  | Program will run successfully and it will print value at index position 4 |  | 0 |
|  | None of the above |  | 0 |
|  | General feedback: |  |  |
|  | For any correct response: | Your answer is correct. |  |
|  | For any incorrect response: | Your answer is incorrect. |  |
|  | Hint 1: |  |  |
|  | Show the number of correct responses (Hint 1): | No |  |
|  | Clear incorrect responses (Hint 1): | No |  |