OCP JAVA_MOCK_TEST_DAY11_Concurrency

Required
1
Participant Name *
Pavithra J
2
Fill in the blanks represents an abstraction of thread pools and can be created by the utility method of the class. (1 Point)
A.ExecutorService , Executors
B. Task , Thread
C. Thread, Task
D. Runnable , Throwable
3
What is the result?
Given code:
import java.util.concurrent.*; class Caller implements Callable <void> {</void>
String str;
public Caller(String s) {
this.str = s;
} public Void call() throws Evention (
<pre>public Void call() throws Exception { System.out.println(str.toUpperCase());</pre>
return null;
}
} public class Tost (
<pre>public class Test { public static void main(String[] args) throws InterruptedException, ExecutionException {</pre>
var es = Executors.newSingleThreadExecutor();
var future = es.submit(new Caller(""Call""));

```
System.out.println(future.get());
  } (1 Point) 🔷
 A. The program doesn't terminate but prints following:CALL CALL
    B. The program doesn't terminate but prints following:null null
  C. The program doesn't terminate but prints following:CALL null

    D. The program terminates after printing:CALL null

    4
  What is the output of the following code snippet?
  Callable c = new Callable() {
  public Object run() {
  System.out.print("X");
  return 10;
  }
  };
  var s = Executors.newScheduledThreadPool(1);
  for(int i=0; i<10; i++) {
  Future f = s.submit(c);
  f.get();
  s.shutdown();
  System.out.print("Done!"); (1 Point)
   A. XXXXXXXXXDone!
   B. Done!XXXXXXXXXX
C. The code does not compile.
 D. The code hangs indefinitely at runtime.
  E. The code throws an exception at runtime.
F. The output cannot be determined ahead of time
    5
  Which of the following methods is not available on an ExecutorService instance?
   (Choose two.) (1 Point)
```

Please select 2 options.

A. execute(Callable)
B. shutdownNow()
C. submit(Runnable)
D. exit()
E. submit(Callable)
F. execute(Runnable)
6
Which of the following is a recommended way to define an asynchronous task? (1 Point) \bigcirc
A. Create a Callable expression and pass it to an instance of an Executor.
B. Create a class that extends Thread and override the start() method.
C. Create a Runnable lambda expression and pass it to a Thread constructor.
D. Create an anonymous Runnable class that overrides the begin() method.
E. All of the above.
7
Given
which type of lambda expression is passed to submit (1 Point) \bigcirc
Given the code fragment:
<pre>var pool = Executors.newFixedThreadPool(5); Future outcome = pool.submit(() -> 1);</pre>
A java.lang.Runnable

A. a -> {return 10;} B. () -> {String s = "";} C. () -> 5 D. () -> {return null} E. () -> "The" + "Zoo" F. (int count) -> count+1 G. () -> {System.out.println("Giraffe"); return 10;} Which of the following can be inserted into the blank to allow the code to compile and run without throwing an exception? (Choose three) var f = DateTimeFormatter.ofPattern("hh o'clock"); System.out.println(f.format(now())); (1 Point)	\bigcirc	B java.util.function.Predicate
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 A. Date B. LocalDate ✓ C. LocalDateTime ✓ D. LocalTime 	\	
B. LocalDate C. LocalDateTime D. LocalTime	Plea	se select 3 options.
✓ C. LocalDateTime ✓ D. LocalTime		A. Date
✓ D. LocalTime		B. LocalDate
	/	C. LocalDateTime
E. The code does not compile regardless of what is placed in the blank.	/	D. LocalTime
	/	E. The code does not compile regardless of what is placed in the blank.

F. None of the above
10
Fill in the blank with the option that allows the code snippet to compile and print a message without throwing an exception at runtime. (choose two)
<pre>var x = LocalDate.of(2022, 3, 1); var y = LocalDateTime.of(2022, 3, 1, 5, 55); var f = DateTimeFormatter.ofPattern("MMMM' at 'h' o'clock'"); System.out.print(</pre>
Please select 2 options.
A. f.formatDate(x)
B. f.formatDate(y)
C. f.format(x)
D. f.format(y)
E. The code does not compile regardless of what is placed in the blank.
F. None of the above
11
Which of the following prints OhNo with the assertion failure when the number magic is positive? (Choose two.) (1 Point)
Please select 2 options.
A. assert magic < 0: "OhNo";
B. assert magic < 0, "OhNo";
C . assert magic < 0 ("OhNo");
C. assert(magic < 0): "OhNo";
D. assert(magic < 0, "OhNo");

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