12:47

OCP JAVA_MOCK_TEST_DAY11_Concurrency

* Required

1

Participant Name *

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2

Fill in the blanks
_____ represents an abstraction of thread pools and can be created by the utility methods 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> {
String str;
public Caller(String s) {
this.str = s;
}
public Void call() throws Exception {
System.out.println(str.toUpperCase());
return null;
}
}
public class Test {
public static void main(String[] args) throws InterruptedException, ExecutionException {
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. XXXXXXXXXXDone!
- 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.

- [x] A. execute(Callable)
- [ ] B. shutdownNow()
- [ ] C. submit(Runnable)
- [x] D. exit()
- [ ] E. submit(Callable)
- [ ] F. execute(Runnable)

6

Which of the following is a recommended way to define an asynchronous task? (1 Point)

- (●) 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)

Given the code fragment:

```
var pool = Executors.newFixedThreadPool(5);
Future outcome = pool.submit(() -> 1);
```

- ( ) A java.lang.Runnable

- ○ B java.util.function.Predicate
- ○ C java.util.function.Function
- ◉ D java.util.concurrent.Callable

8

Which of the following are valid Callable expressions? (Choose three options) (1 Point)

Please select 3 options.

- ☐ 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;}

9

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)
```

Please select 3 options.

- ☐ A. Date
- ☐ B. LocalDate
- ☑ C. LocalDateTime
- ☑ 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)

```
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(_____ );
```
(1 Point)

Please select 2 options.

- [ ] A. f.formatDate(x)
- [ ] B. f.formatDate(y)
- [x] C. f.format(x)
- [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.

- [x] A. assert magic < 0: "OhNo";
- [ ] B. assert magic < 0, "OhNo";
- [ ] C . assert magic < 0 ("OhNo");
- [x] C. assert(magic < 0): "OhNo";
- [ ] D. assert(magic < 0, "OhNo");

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