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| Question 1  Given: |
| 1. public class Threads3 implements Runnable { |
| 2. public void run() { |
| 3. System.out.print(”running”); |
| 4. } |
| 5. public static void main(String[] args) { |
| 6. Thread t = new Thread(new Threads3()); |
| 7. t.run(); |
| 8. t.run(); |
| 9. t.start(); |
| 10. } |
| 11. } |
| What is the result? |
| A. Compilation fails. |
| B. An exception is thrown at runtime. |
| C. The code executes and prints “running”. |
| D. The code executes and prints “runningrunning”. |
| **E. The code executes and prints “runningrunningrunning”.** |
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| Question 2 |
| Which two code fragments will execute the method doStuff() in a |
| separate thread? (Choose two.) |
| A. new Thread() { |
| public void run() { doStuff(); } |
| } |
| B. new Thread() { |
| public void start() { doStuff(); } |
| } |
| C. new Thread() { |
| public void start() { doStuff(); } |
| } .run(); |
| D. new Thread() { |
| public void run() { doStuff(); } |
| } .start(); |
| E. new Thread(new Runnable() { |
| public void run() { doStuff(); } |
| } ).run(); |
| F. new Thread(new Runnable() { |
| public void run() { doStuff(); }  }).start(); |
| Link: <https://vceguide.com/which-two-code-fragments-will-execute-the-method-dostuff-in-a-separate-thread/> |
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| Question 3 |
| Given: |
| 1. public class Threads4 { |
| 2. public static void main (String[] args) { |
| 3. new Threads4().go(); |
| 4. } |
| 5. public void go() { |
| 6. Runnable r = new Runnable() { |
| 7. public void run() { |
| 8. System.out.print(”foo”); |
| 9. } |
| 10. }; |
| 11. Thread t = new Thread(r); |
| 12. t.start(); |
| 13. t.start(); |
| 14. } |
| 15. } |
| What is the result? |
| A. Compilation fails. |
| B. An exception is thrown at runtime. |
| C. The code executes normally and prints ‘foo”. |
| D. The code executes normally, but nothing is printed. |
| Explanation:  Exception in thread "main" foojava.lang.IllegalThreadStateException  at java.lang.Thread.start(Thread.java:705)  at Main.go(Main.java:21)  at Main.main(Main.java:11)  -------------------------------------------------------------------------------- |
| Question 4 |
| Given: |
| 1. public class Threads5 { |
| 2. public static void main (String[] args) { |
| 3. new Thread(new Runnable() { |
| 4. public void run() { |
| 5. System.out.print(”bar”); |
| 6. }}).start(); |
| 7. } |
| 8. } |
| What is the result? |
| A. Compilation fails. |
| B. An exception is thrown at runtime. |
| C. The code executes normally and prints “bar”. |
| D. The code executes normally, but nothing prints. |
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| Question 5 |
| Given: |
| 11. Runnable r = new Runnable() { |
| 12. public void run() { |
| 13. System.out.print(”Cat”); |
| 14. } |
| 15. }; |
| 16. Threadt=new Thread(r) { |
| 17. public void run() { |
| 18. System.out.print(”Dog”); |
| 19. } |
| 20. }; |
| 21. t.start(); |
| What is the result? |
| A. Cat |
| B. Dog |
| C. Compilation fails. |
| D. The code runs with no output. |
| E. An exception is thrown at runtime. |
| Link: <http://www.durgasoft.com/scjp_material_2.asp?chapter=9&page=3>  -------------------------------------------------------------------------------- |
| Question 6 |
| Click the Exhibit button. |
| Given: |
| 10. public class Starter extends Thread { |
| 11. private int x= 2; |
| 12. public static void main(String[] args) throws Exception { |
| 13. new Starter().makeItSo(); |
| 14. } |
| 15. public Starter() { |
| 16. x=5; |
| 17. start(); |
| 18. } |
| 19. public void makeItSo() throws Exception { |
| 20. join(); |
| 21. x=x- 1; |
| 22. System.out.println(x); |
| 23. } |
| 24. public void run() { x \*= 2; } |
| 25. } |
| What is the output if the main() method is rum? |
| A. 4 |
| B. 5 |
| C. 8 |
| D. 9 |
| E. Compilation fails. |
| F. An exception is thrown at runtime. |
| G. It is impossible to determine for certain. |
| Link: <https://www.javamadesoeasy.com/2018/08/scjp-ocjp-dumps-1-exam-a.html>  -------------------------------------------------------------------------------- |
| Question 7 |
| Given: |
| 1. public class Threads2 implements Runnable { |
| 2. |
| 3. public void run() { |
| 4. System.out.println(”run.”); |
| 5. throw new RuntimeException(”Problem”); |
| 6. } |
| 7. public static void main(String[] args) { |
| 8. Thread t = new Thread(new Threads2()); |
| 9. t.start(); |
| 10. System.out.println(”End of method.”); |
| 11. } |
| 12. } |
| Which two can be results? (Choose two.) |
| A. java.lang.RuntimeException: Problem |
| B. run. |
| java.lang.RuntimeException: Problem |
| C. End of method. |
| java.lang.RuntimeException: Problem |
| D. End of method. |
| run. |
| java.lang.RuntimeException: Problem |
| E. run. |
| java.lang.RuntimeException: Problem |
| End of method. |
| Link: <http://ocjpdumps.blogspot.com/2012/07/q1-10.html>  -------------------------------------------------------------------------------- |
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| Question 8 |
| Given: |
| 1. public class TestOne { |
| 2. public static void main (String[] args) throws Exception { |
| 3. Thread.sleep(3000); |
| 4. System.out.println(”sleep”); |
| 5. } |
| 6. } |
| What is the result? |
| A. Compilation fails. |
| B. An exception is thrown at runtime. |
| C. The code executes normally and prints “sleep”. |
| D. The code executes normally, but nothing is printed.  Link: <https://www.javamadesoeasy.com/2018/07/multi-threading-scjp-ocjp.html> |
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| Question 9 |
| Given: |
| 1. public class TestOne implements Runnable { |
| 2. public static void main (String[] args) throws Exception { |
| 3. Thread t = new Thread(new TestOne()); |
| 4. t.start(); |
| 5. System.out.print(”Started”); |
| 6. t.join(); |
| 7. System.out.print(”Complete”); |
| 8. } |
| 9. public void run() { |
| 10. for (int i= 0; i< 4; i++) { |
| 11. System.out.print(i); |
| 12. } |
| 13. } |
| 14. } |
| What can be a result? |
| A. Compilation fails. |
| B. An exception is thrown at runtime. |
| C. The code executes and prints “StartedComplete”. |
| D. The code executes and prints “StartedComplete0123”. |
| E. The code executes and prints “Started0l23Complete”. |
| Link: <https://stackoverflow.com/questions/6288302/question-on-java-thread-output-consistent>  -------------------------------------------------------------------------------- |
| Question 10 |
|  |
| Given: |
| 1. public class TwoThreads { |
| 2 |
| 3. private static Object resource = new Object(); |
| 4. |
| 5. private static void delay(long n) { |
| 6. try { Thread.sleep(n); } |
| 7. catch (Exception e) { System.out.print(”Error “); } |
| 8. } |
| 9 |
| 10. public static void main(String[] args) { |
| 11. System.out.print(”StartMain “); |
| 12. new Thread1().start(); |
| 13. delay(1000); |
| 14. Thread t2 = new Thread2(); |
| 15. t2.start(); |
| 16. delay(1000); |
| 17. t2.interrupt |
| 18. delay(1000); |
| 19. System.out.print(”EndMain “); |
| 20. } |
| 21. |
| 22. static class Thread 1 extends Thread { |
| 23. public void run() { |
| 24. synchronized (resource) { |
| 25. System.out.print(”Startl “); |
| 26. delay(6000); |
| 27. System.out.print(”End1 “); |
| 28. } |
| 29. } |
| 30. } |
| 31. |
| 32. static class Thread2 extends Thread { |
| 33. public void run() { |
| 34. synchronized (resource) { |
| 35. System.out.print(”Start2 “); |
| 36. delay(2000); |
| 37. System.out.print(”End2 “); |
| 38. } |
| 39. } |
| 40. } |
| 41. } |
| Assume that sleep(m) executes in exactly m milliseconds, and all other |
| code executes in an insignificant amount of time. What is the output if |
| the main() method is run? |
| A. Compilation fails. |
| B. Deadlock occurs. |
| C. StartMain Start1 Error EndMain End1 |
| D. StartMain Start1 EndMain End1 Start2 End2 |
| E. StartMain Start1 Error Start2 EndMain End2 End1 |
| F. StartMain Start1 Start2 Error End2 EndMain End1 |
| G. StartMain Start1 EndMain End1 Start2 Error End2 |
| Link: <http://ocpjp.jobs4times.com/multiThread.html>  <http://www.durgasoft.com/scjp_material_2.asp?chapter=9&page=7>  -------------------------------------------------------------------------------- |
| Question 11 |
| Given: |
| public class NamedCounter { |
| private final String name; |
| private int count; |
| public NamedCounter(String name) { this.name = name; } |
| public String getName() { return name; } |
| public void increment() { coount++; } |
| public int getCount() { return count; } |
| public void reset() { count = 0; } |
| } |
| Which three changes should be made to adapt this class to be used |
| safely by multiple threads? (Choose three.) |
| A. declare reset() using the synchronized keyword |
| B. declare getName() using the synchronized keyword |
| C. declare getCount() using the synchronized keyword |
| D. declare the constructor using the synchronized keyword |
| E. declare increment() using the synchronized keyword |
| Link: <https://coderanch.com/t/264558/certification/synchronized>  -------------------------------------------------------------------------------- |
| Question 12 |
| Click the Exhibit button: |
| 1. public class Threads 1 { |
| 2. intx=0; |
| 3. public class Runner implements Runnable { |
| 4. public void run() { |
| 5. int current = 0; |
| 6. for(int=i=0;i<4;i++){ |
| 7. current = x; |
| 8. System.out.print(current + “, “); |
| 9. x = current + 2; |
| 10. } |
| 11. } |
| 12. } |
| 13. |
| 14. public static void main(String[] args) { |
| 15. new Threads1().go(); |
| 16. } |
| 17. |
| 18. public void go() { |
| 19. Runnable r1 = new Runner(); |
| 20. new Thread(r1).start(); |
| 21. new Thread(r1 ).start(); |
| 22. } |
| 23. } |
| Which two are possible results? (Choose two.) |
| A. 0, 2, 4, 4, 6, 8, 10, 6, |
| B. 0, 2, 4, 6, 8, 10, 2, 4, |
| C. 0, 2, 4, 6, 8, 10, 12, 14, |
| D. 0, 0, 2, 2, 4, 4, 6, 6, 8, 8, 10, 10, 12, 12, 14, 14, |
| E. 0, 2, 4, 6, 8, 10, 12, 14, 0, 2, 4, 6, 8, 10, 12, 14, |
| Link: <http://read.pudn.com/downloads166/sourcecode/java/762920/Module/Module8.pdf>  <https://wenku.baidu.com/view/31e7200c844769eae009ed31>  -------------------------------------------------------------------------------- |
| Question 13 |
| Click the Exhibit button. |
| 1. import java.util.\*; |
| 2. |
| 3. public class NameList { |
| 4. private List names = new ArrayList(); |
| 5. public synchronized void add(String name) { names.add(name); } |
| 6. public synchronized void printAll() { |
| 7. for (int i = 0; i <names.size(); i++) { |
| 8. System.out.print(names.get(i) +“ “); |
| 9. } |
| 10. } |
| 11. public static void main(String[] args) { |
| 12. final NameList sl = new NameList(); |
| 13.for(int i=0;i<2;i++) { |
| 14. new Thread() { |
| 15. public void ruin() { |
| 16. sl.add(”A”); |
| 17. sl.add(”B”); |
| 18. sl.add(”C”); |
| 19. sl.printAll(); |
| 20. } |
| 21. }.start(); |
| 22. } |
| 23. } |
| 24. } |
| Which two statements are true if this class is compiled and run? |
| (Choose two.) |
| A. An exception may be thrown at runtime. |
| B. The code may run with no output, without exiting. |
| C. The code may run with no output, exiting normally. |
| D. The code may rum with output “A B A B C C “, then exit. |
| E. The code may rum with output “A B C A B C A B C “, then exit. |
| F. The code may ruin with output “A A A B C A B C C “, then exit. |
| G. The code may ruin with output “A B C A A B C A B C “, then exit. |
| Link: <http://javasehelp.blogspot.com/2011/12/scjp-questions-121-130.html>  -------------------------------------------------------------------------------- |
| Question 14 |
| Given: |
| 1. public class TestFive { |
| 2. private int x; |
| 3. public void foo() { |
| 4 int current = x; |
| 5. x = current + 1; |
| 6. } |
| 7. public void go() { |
| 8. for(int i=0;i<5;i++) { |
| 9. new Thread() { |
| 10. public void run() { |
| 11. foo(); |
| 12. System.out.print(x + “, “); |
| 13. } }.start(); |
| 14. }}} |
| Which two changes, taken together, would guarantee the output: 1, 2, |
| 3, 4, 5, ? (Choose two.) |
| A. Move the line 12 print statement into the foo() method. |
| B. Change line 7 to public synchronized void go() {. |
| C. Change the variable declaration on line 3 to private volatile int x;. |
| D. Wrap the code inside the foo() method with a synchronized( this ) |
| block. |
| E. Wrap the for loop code inside the go() method with a synchronized |
| block synchronized(this) { // for loop code here }. |
| Link: <http://scjptestquestion.blogspot.com/p/question-81-given-1.html>  -------------------------------------------------------------------------------- |
| Question 15 |
| Which three will compile and run without exception? (Choose three.) |
| A. private synchronized Object o; |
| B. void go() { |
| synchronized() { /\* code here \*/ } |
| } |
| C. public synchronized void go() { /\* code here \*/ } |
| D. private synchronized(this) void go() { /\* code here \*/ } |
| E. void go() { |
| synchronized(Object.class) { /\* code here \*/ } |
| } |
| F. void go() { |
| Object o = new Object(); |
| synchronized(o) { /\* code here \*/ }  } |
| Link: <http://www.durgasoft.com/scjp_material_2.asp?chapter=9&page=5>  <http://www.santhoshreddymandadi.com/java/scjp-question-bank20.html> |