Methods and Exception

Total points 11/39

The respondent's email (aazadbablesh@gmail.com) was recorded on submission of this form.

1. What modifiers are implicitly applied to all interface methods? (all that apply	Choose *1/1
A. protected	
B. public	✓
C. static	
D. void	
E. abstract	
F. default	

×	2. What is the output of the following code?	0/1
	1: class Mammal {	
	2: public Mammal(int age) {	
	3: System.out.print("Mammal");	
	4: }	
	5: }	
	6: public class Platypus extends Mammal {	
	7: public Platypus() {	
	8: System.out.print("Platypus");	
	9: }	
	10: public static void main(String[] args) {	
	11: new Mammal(5);	
	12: } 13: }	
	A. Platypus	
(B. Mammal	X
	C. PlatypusMammal	
	D. MammalPlatypus	
	E. The code will not compile because of line 8.	
	F. The code will not compile because of line 11.	

X 3. Which of the following statements can be inserted in the blank line so 0/1 that the code will compile successfully? (Choose all that apply) public interface CanHop {} public class Frog implements CanHop { public static void main(String[] args) { frog = new TurtleFrog(); } } public class BrazilianHornedFrog extends Frog {} public class TurtleFrog extends Frog {}
A. Frog
B. TurtleFrog
C. BrazilianHornedFrog
D. CanHop
E. Object
F. Long

×	4. Which statement(s) are correct about the following code? (Choose all that apply) public class Rodent { protected static Integer chew() throws Exception { System.out.println("Rodent is chewing"); return 1; } } public class Beaver extends Rodent { public Number chew() throws RuntimeException { System.out.println("Beaver is chewing on wood"); return 2; } }	*0/1
	A. It will compile without issue.	
	B. It fails to compile because the type of the exception the method throws is a subclass of	
	the type of exception the parent method throws.	
	C. It fails to compile because the return types are not covariant.	
	D. It fails to compile because the method is protected in the parent class and put in	blic
	the subclass.	
✓	E. It fails to compile because of a static modifier mismatch between the two methods	✓
×	5. Which of the following may only be hidden and not overridden? (Choose all that apply)	*0/1
~	A. private instance methods	✓
	B. protected instance methods	
	C. public instance methods	
	D. static methods	
	E. public variables	
✓	F. private variables	✓

×	6. Choose the correct statement about the following code: 1: interface HasExoskeleton { 2: abstract int getNumberOfSections(); 3: } 4: abstract class Insect implements HasExoskeleton { 5: abstract int getNumberOfLegs(); 6: } 7: public class Beetle extends Insect { 8: int getNumberOfLegs() { return 6; } 9: }	0/1
	A. It compiles and runs without issue.	
✓	B. The code will not compile because of line 2.	×
	C. The code will not compile because of line 4.	
	D. The code will not compile because of line 7.	
	E. It compiles but throws an exception at runtime.	
×	7. Which of the following statements about polymorphism are true? (Choose all that apply	0/1
~	A. A reference to an object may be cast to a subclass of the object without an explicit cast.	×
	B. If a method takes a superclass of three objects, then any of those classes mabe passed as a parameter to the method.	y
	C. A method that takes a parameter with type java.lang.Object will take any reference.	
	D. All cast exceptions can be detected at compile-time.	
✓	E. By defining a public instance method in the superclass, you guarantee that the specific method will be called in the parent class at runtime.	×

 X 8. Choose the correct statement about the following code: 1: public interface Herbivore { 2: int amount = 10; 3: public static void eatGrass(); 4: public int chew() { 5: return 13; 6: } 7: } 	0/1
A. It compiles and runs without issue.	
B. The code will not compile because of line 2.	
C. The code will not compile because of line 3.	×
D. The code will not compile because of line 4.	
E. The code will not compile because of lines 2 and 3.	
F. The code will not compile because of lines 3 and 4.	

 9. Choose the correct statement about the following code: 1: public interface CanFly { 2: void fly(); 3: } 4: interface HasWings { 5: public abstract Object getWindSpan(); 6: } 7: abstract class Falcon implements CanFly, HasWings { 8: } 	1/1
A. It compiles without issue.	~
B. The code will not compile because of line 2.	
C. The code will not compile because of line 4.	
D. The code will not compile because of line 5.	
E. The code will not compile because of lines 2 and 5.	
F. The code will not compile because the class Falcon doesn't implement t interface	he
methods.	

×	10. Which statements are true for both abstract classes and interfaces? (Choose all that apply	0/1
	A. All methods within them are assumed to be abstract.	×
	B. Both can contain public static final variables.	✓
	C. Both can be extended using the extend keyword.	
	D. Both can contain default methods.	
	E. Both can contain static methods.	
	F. Neither can be instantiated directly.	
~	G. Both inherit java.lang.Object.	×
~	11. What modifiers are assumed for all interface variables? (Choose all that apply)	1/1
✓ <	· · · · · · · · · · · · · · · · · · ·	1/1
✓ ✓ <u> </u>	that apply)	1/1
	that apply) A. public	1/1
	that apply) A. public B. protected	1/1
	that apply) A. public B. protected C. private	1/1
	that apply) A. public B. protected C. private D. static	1/1

✓	12. What is the output of the following code? 1: interface Nocturnal { 2: default boolean isBlind() { return true; } 3: } 4: public class Owl implements Nocturnal { 5: public boolean isBlind() { return false; } 6: public static void main(String[] args) { 7: Nocturnal nocturnal = (Nocturnal)new Owl(); 8: System.out.println(nocturnal.isBlind()); 9: } 10: }	1/1
	A. true	
	B. false	✓
	C. The code will not compile because of line 2.	
	D. The code will not compile because of line 5.	
	E. The code will not compile because of line 7.	
	F. The code will not compile because of line 8	

×	<pre>13. What is the output of the following code? 1: class Arthropod 2: public void printName(double input) { System.out .print("Arthropod"); } 3: } 4: public class Spider extends Arthropod { 5: public void printName(int input) { System.out.print("Spider"); } 6: public static void main(String[] args) { 7: Spider spider = new Spider(); 8: spider.printName(4); 9: spider.printName(9.0); 10: } 11: }</pre>	0/1
0	A. SpiderArthropod	
0	B. ArthropodSpider	
0	C. SpiderSpider	
0	D. ArthropodArthropod	
0	E. The code will not compile because of line 5.	
•	F. The code will not compile because of line 9.	×

*	 14. Which statements are true about the following code? (Choose all that apply) 1: interface HasVocalCords { 2: public abstract void makeSound(); 3: } 4: public interface CanBark extends HasVocalCords { 5: public void bark(); 6: } 	
	A. The CanBark interface doesn't compile.	
	B. A class that implements HasVocalCords must override the makeSound() method.	
	C. A class that implements CanBark inherits both the makeSound() and bark() methods.	✓
	D. A class that implements CanBark only inherits the bark() method.	
	E. An interface cannot extend another interface.	
×	15. Which of the following is true about a concrete subclass? (Choose all	l 0/1
	that apply)	. 0, 1
<	that apply) A. A concrete subclass can be declared as abstract.	X
		
	A. A concrete subclass can be declared as abstract.	
	A. A concrete subclass can be declared as abstract.B. A concrete subclass must implement all inherited abstract methods.C. A concrete subclass must implement all methods defined in an inherited	×
	A. A concrete subclass can be declared as abstract.B. A concrete subclass must implement all inherited abstract methods.C. A concrete subclass must implement all methods defined in an inherited interface.	×

×	16. What is the output of the following code? 1: abstract class Reptile { 2: public final void layEggs() { System.out.println("Reptile laying eggs"); } 3: public static void main(String[] args) { 4: Reptile reptile = new Lizard(); 5: reptile.layEggs(); 6: } 7: } 8: public class Lizard extends Reptile { 9: public void layEggs() { System.out.println("Lizard laying eggs"); } 10: }	0/1
0	A. Reptile laying eggs	
0	B. Lizard laying eggs	
0	C. The code will not compile because of line 4.	
•	D. The code will not compile because of line 5.	×
0	E. The code will not compile because of line 9.	
×	17. What is the output of the following code?	0/1
	1: public abstract class Whale { 2: public abstract void dive() {}; 3: public static void main(String[] args) { 4: Whale whale = new Orca(); 5: whale.dive(); 6: } 7: } 8: class Orca extends Whale { 9: public void dive(int depth) { System.out.println("Orca diving"); } 10: }	
	2: public abstract void dive() {}; 3: public static void main(String[] args) { 4: Whale whale = new Orca(); 5: whale.dive(); 6: } 7: } 8: class Orca extends Whale {	
	2: public abstract void dive() {}; 3: public static void main(String[] args) { 4: Whale whale = new Orca(); 5: whale.dive(); 6: } 7: } 8: class Orca extends Whale { 9: public void dive(int depth) { System.out.println("Orca diving"); } 10: }	
	2: public abstract void dive() {}; 3: public static void main(String[] args) { 4: Whale whale = new Orca(); 5: whale.dive(); 6: } 7: } 8: class Orca extends Whale { 9: public void dive(int depth) { System.out.println("Orca diving"); } 10: } A. Orca diving	
	2: public abstract void dive() {}; 3: public static void main(String[] args) { 4: Whale whale = new Orca(); 5: whale.dive(); 6: } 7: } 8: class Orca extends Whale { 9: public void dive(int depth) { System.out.println("Orca diving"); } 10: } A. Orca diving B. The code will not compile because of line 2.	×

×	 18. What is the output of the following code? (Choose all that apply) 1: interface Aquatic { 2: public default int getNumberOfGills(int input) { return 2; } 3: } 4: public class ClownFish implements Aquatic { 5: public String getNumberOfGills() { return "4"; } 6: public String getNumberOfGills(int input) { return "6"; } 7: public static void main(String[] args) { 8: System.out.println(new ClownFish().getNumberOfGills(-1)); 9: } 10: } 	0/1
0	A. 2	
0	B. 4	
	C. 6	×
0	D. The code will not compile because of line 5.	
0	E. The code will not compile because of line 6.	
0	F. The code will not compile because of line 8.	

19. Which of the following statements can be inserted in the blank so that 0/1 X the code will compile successfully? (Choose all that apply) public class Snake {} public class Cobra extends Snake {} public class GardenSnake {} public class SnakeHandler { private Snake snake; public void setSnake(Snake snake) { this.snake = snake; } public static void main(String[] args) { new SnakeHandler().setSnake();}} A. new Cobra() B. new GardenSnake() C. new Snake() D. new Object() E. new String("Snake") F. null

 20. What is the result of the following code? 1: public abstract class Bird { 2: private void fly() { System.out.println("Bird is flying"); } 3: public static void main(String[] args) { 4: Bird bird = new Pelican(); 5: bird.fly(); 6: } 7: } 8: class Pelican extends Bird { 9: protected void fly() { System.out.println("Pelican is flying"); } 10: } 	0/1
A. Bird is flying	
B. Pelican is flying	
C. The code will not compile because of line 4.	×
D. The code will not compile because of line 5.	
E. The code will not compile because of line 9.	
× 21. Which of the following statements are true? (Choose all that apply	0/1
A. Runtime exceptions are the same thing as checked exceptions.	
B. Runtime exceptions are the same thing as unchecked exceptions.	✓
C. You can declare only checked exceptions.	×
D. You can declare only unchecked exceptions.	
E. You can handle only Exception subclasses.	

 2. Which of the following pairs fill in the blanks to make this code compile? (Choose all that apply) 7: public void ohNo() Exception { 8: Exception(); 9: }
A. On line 7, fill in throw
B. On line 7, fill in throws
C. On line 8, fill in throw
D. On line 8, fill in throw new
E. On line 8, fill in throws
F. On line 8, fill in throws new
23. When are you required to use a finally block in a regular try statement 0/1 (not a try-withresources)?
(not a try-withresources)?
(not a try-withresources)? A. Never.
(not a try-withresources)? A. Never. B. When the program code doesn't terminate on its own.
 (not a try-withresources)? A. Never. B. When the program code doesn't terminate on its own. C. When there are no catch blocks in a try statement.

2 4. Which exception will the following throw? Object obj = new Integer(3); 1/1 String str = (String) obj; System.out.println(str);
A. ArrayIndexOutOfBoundsException
■ B. ClassCastException
C. IllegalArgumentException
D. NumberFormatException
E. None of the above.
25. Which of the following exceptions are thrown by the JVM? (Choose all 0/1 that apply)
that apply)
that apply) A. ArrayIndexOutOfBoundsException
that apply) A. ArrayIndexOutOfBoundsException B. ExceptionInInitializerError
that apply) A. ArrayIndexOutOfBoundsException B. ExceptionInInitializerError C. java.io.IOException X

26. What will happen if you add the statement System.out.println(5 / a working main() method?	0); to 1/1
A. It will not compile.	
B. It will not run.	
C. It will run and throw an ArithmeticException.	✓
D. It will run and throw an IllegalArgumentException.	
E. None of the above.	

✓ 27. What is printed besides the stack trace caused by the 1/1 NullPointerException from line 16? 1: public class DoSomething { 2: public void go() { 3: System.out.print("A"); 4: try { 5: stop(); 6: } catch (ArithmeticException e) { 7: System.out.print("B"); 8: } finally { 9: System.out.print("C"); 10:} 11: System.out.print("D"); 12:} 13: public void stop() { 14: System.out.print("E"); 15: Object x = null; 16: x.toString(); 17: System.out.print("F"); 18:} 19: public static void main(String[] args) { 20: new DoSomething().go(); 21: } 22: } A. AE B. AEBCD C. AEC D. AECD E. No output appears other than the stack trace.

X 28. What is the output of the following snippet, assuming a and b are both 0? 3: try { 4: return a / b; 5: } catch (RuntimeException e) { 6: return -1; 7: } catch (ArithmeticException e) { 8: return 0; 9: } finally { 10: System.out.print("done"); 11:} A. -1 B. 0 C. done-1 D. done0 E. The code does not compile. F. An uncaught exception is thrown. X × 29. What is the output of the following program? 0/1 1: public class Laptop { 2: public void start() { 3: try { 4: System.out.print("Starting up "); 5: throw new Exception(); 6: } catch (Exception e) { 7: System.out.print("Problem"); 8: System.exit(0); 9: } finally { 10: System.out.print("Shutting down "); 11: } 12: } 13: public static void main(String[] args) { 14: new Laptop().start(); 15: } } A. Starting up B. Starting up Problem C. Starting up Problem Shutting down D. Starting up Shutting down E. The code does not compile. F. An uncaught exception is thrown.

,	00 M/h - t :- th t t - f th - f - H :	a (a
\	30. What is the output of the following program?	1/1
	1: public class Dog { 2: public String name;	
	3: public void parseName() {	
	4: System.out.print("1");	
	5: try { 6: System.out.print("2");	
	7: int x = Integer.parseInt(name);	
	8: System.out.print("3");	
	9: } catch (NumberFormatException e) {	
	10: System.out.print("4"); 11: } 12: }	
	13: public static void main(String[] args) {	
	14: Dog leroy = new Dog();	
	15: leroy.name = "Leroy";	
	16: leroy.parseName();	
	17: System.out.print("5"); 18: }	
	A. 12	
	B. 1234	
	D. 1234	
	C. 1235	
	D 104	
	D. 124	
	E. 1245	/
	F. The code does not compile.	
	G. An uncaught exception is thrown.	
	3. All diredugitt exception is tillown.	

31. What is the output of the following program? 1: public class Cat {	1/1
2: public String name;	
3: public void parseName() {	
4: System.out.print("1");	
5: try {	
6: System.out.print("2");	
7: int x = Integer.parseInt(name);	
8: System.out.print("3");	
9: } catch (NullPointerException e) {	
10: System.out.print("4");	
11: } 12: System.out.print("5");	
13: }	
14: public static void main(String[] args) {	
15: Cat leo = new Cat(); 16: leo.name = "Leo";	
17: leo.parseName();	
18: System.out.print("6"); 19: } 20: }	
A. 12, followed by a stack trace for a NumberFormatException	✓
B. 124, followed by a stack trace for a NumberFormatException	
C. 12456	
D. 12456	
E. 1256, followed by a stack trace for a NumberFormatException	
F. The code does not compile.	
G. An uncaught exception is thrown	

```
32. What is printed by the following? (Choose all that apply) 1: public
X
                                                                                     0/1
    class Mouse {
    2: public String name;
    3: public void run() {
     4: System.out.print("1");
    5: try {
    6: System.out.print("2");
    7: name.toString();
    8: System.out.print("3");
     9: } catch (NullPointerException e) {
    10: System.out.print("4");
    11: throw e; 12: }
    13: System.out.print("5"); 14: }
    15: public static void main(String[] args) {
    16: Mouse jerry = new Mouse();
    17: jerry.run();
    18: System.out.print("6"); 19: } }
     A. 1
     B. 2
     C. 3
     D. 4
     E. 5
     F. 6
    G. The stack trace for a NullPointerException
```

×	33. Which of the following statements are true? (Choose all that apply)	0/1
	A. You can declare a method with Exception as the return type.	
	B. You can declare any subclass of Error in the throws part of a method declarat	ion.
	C. You can declare any subclass of Exception in the throws part of a method declaration.	
~	D. You can declare any subclass of Object in the throws part of a method declaration.	×
	E. You can declare any subclass of RuntimeException in the throws part of a method declaration.	✓
	Option 6	
×	34. Which of the following can be inserted on line 8 to make this code compile? (Choose all that apply) 7: public void ohNo() throws IOException	0/1
×		0/1
×	compile? (Choose all that apply) 7: public void ohNo() throws IOException {	0/1
×	compile? (Choose all that apply) 7: public void ohNo() throws IOException { 8: // INSERT CODE HERE 9: }	0/1
×	compile? (Choose all that apply) 7: public void ohNo() throws IOException { 8: // INSERT CODE HERE 9: } A. System.out.println("it's ok");	
×	compile? (Choose all that apply) 7: public void ohNo() throws IOException { 8: // INSERT CODE HERE 9: } A. System.out.println("it's ok"); B. throw new Exception();	
×	compile? (Choose all that apply) 7: public void ohNo() throws IOException { 8: // INSERT CODE HERE 9: } A. System.out.println("it's ok"); B. throw new Exception(); C. throw new IllegalArgumentException();	

×	35. Which of the following are unchecked exceptions? (Choose all that apply)	0/1
	A. ArrayIndexOutOfBoundsException	✓
	B. IllegalArgumentException	
	C. IOException	
	D. NumberFormatException	✓
	E. Any exception that extends RuntimeException	✓
	F. Any exception that extends Exception	
×	36. Which scenario is the best use of an exception?	0/1
	A. An element is not found when searching a list.	
	B. An unexpected parameter is passed into a method.	✓
	C. The computer caught fire.	
	D. You want to loop through a list.	
<u> </u>	E. You don't know how to code a method.	×

×	37. Which of the following can be inserted into Lion to make this code compile? (Choose all that apply) class HasSoreThroatException extends Exception {} class TiredException extends RuntimeException {} interface Roar { void roar() throws HasSoreThroatException; } class Lion implements Roar {// INSERT CODE HERE }	0/1
	A. public void roar(){}	
~	B. public void roar() throws Exception{}	×
~	C. public void roar() throws HasSoreThroatException{}	✓
	D. public void roar() throws IllegalArgumentException{}	
	E. public void roar() throws TiredException{}	
×	38. Which of the following are true? (Choose all that apply	0/1
~	A. Checked exceptions are allowed to be handled or declared.	✓
~	B. Checked exceptions are required to be handled or declared.	✓
	C. Errors are allowed to be handled or declared.	
~	D. Errors are required to be handled or declared.	×
~	E. Runtime exceptions are allowed to be handled or declared.	✓
	F. Runtime exceptions are required to be handled or declared.	

39. Which of the following can be inserted in the blank to make the code compile? (Choose all that apply) public static void main(String[] args) {
try {
System.out.println("work real hard");
}
catch (e) {}
catch (RuntimeException e) {}
}

A. Exception

B. IOException

C. IllegalArgumentException

D. RuntimeException

E. StackOverflowError

F. None of the above.

```
40. What does the output of the following contain? (Choose all that
X
                                                                                   0/1
    apply)
    12: public static void main(String[] args) {
     13: System.out.print("a");
    14: try {
     15: System.out.print("b");
    16: throw new IllegalArgumentException();
     17: } catch (IllegalArgumentException e) {
    18: System.out.print("c");
    19: throw new RuntimeException("1");
    20: } catch (RuntimeException e) {
    21: System.out.print("d");
    22: throw new RuntimeException("2");
    23: } finally {
    24: System.out.print("e");
    25: throw new RuntimeException("3");
    26: } 27: }
     A. abce
     B. abde
     C. An exception with the message set to "1"
     D. An exception with the message set to "2"
     E. An exception with the message set to "3"
     F. Nothing; the code does not compile.
```

This content is neither created nor endorsed by Google. - Terms of Service - Privacy Policy

Google Forms