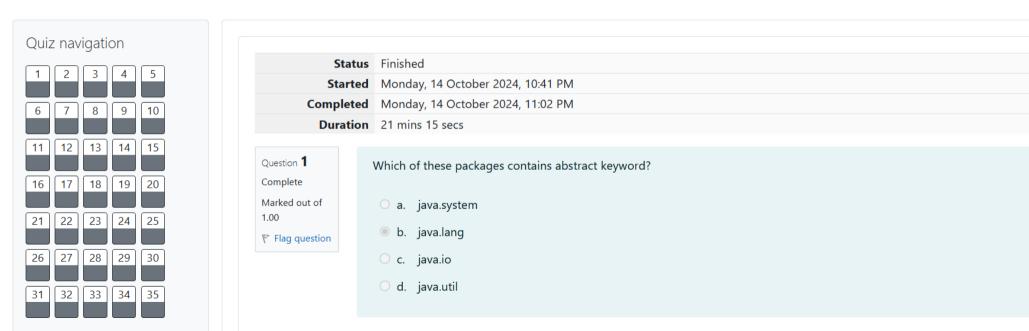
CS23333-Object Oriented Programming Using Java-2023



Show one page at a time Question 2 Given: Finish review Complete 1 abstract class AbstractIt Marked out of 2 { 1.00 3 abstract float getFloat(); Flag question 4 } 5 public class Test1 extends AbstractIt 6 { private float f1 = 1.0f; private float getFloat(){ return f1;} 9 10 public static void main(String[] args) 11 { 12 } 13 } a. Compilation error at line no 8 b. Compilation succeeds oc. Runtime error at line 8 Od. Compilation error at line no 5

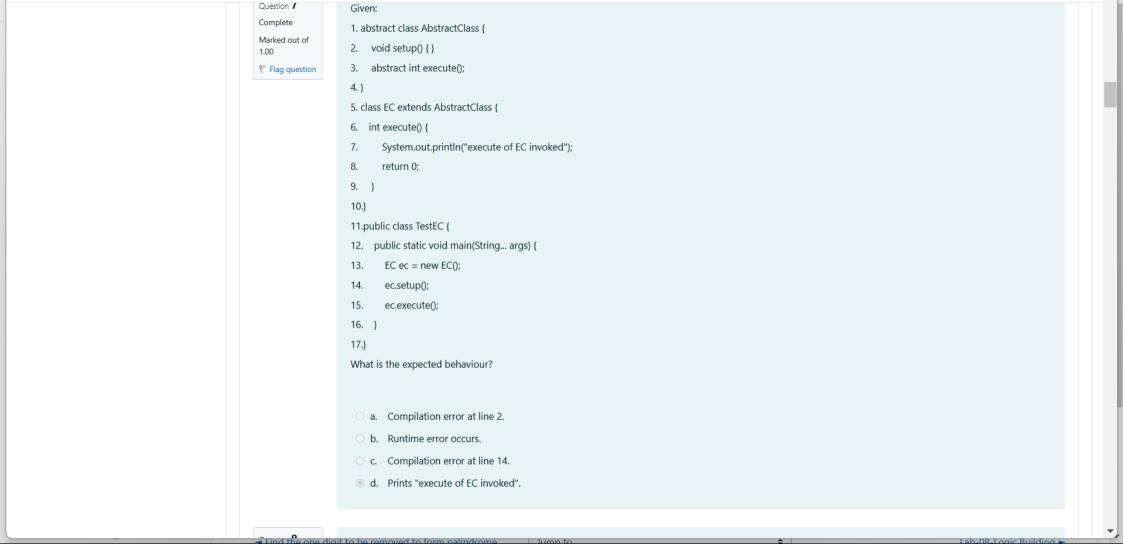
Lap-up-inneritance

Question 3 Complete Marked out of 1.00	A class Car and its subclass Yugo both have a method run() which was written by the programmer as part of the class definition. If junker refers to an object of type Yugo, what will the following code do? junker.run();
Flag question	
	a. The run() method defined in Yugo will be called.
	b. The compiler will complain that run() has been defined twice.
	c. The run() method defined in Car will be called.
	Od. Overloading will be used to pick which run() is called.

Question 4 What is the output of this program? Complete Marked out of abstract class A 1.00 Flag question int i; abstract void display(); class B extends A int j; void display() System.out.println(j); class Abstract_demo public static void main(String args[]) B obj = new B(); obj.j=2; obj.display(); a. Compilation error b. Runtime error occurs.

Question 5	Here is a situation:
Complete	Birthday happy;
Marked out of 1.00	happy = new AdultBirthday("Joe", 39);
▼ Flag question	happy.greeting();
	Which greeting() method is run ?
	 a. The one defined for Birthday because that is the type of the variable happy.
	 b. The assignment statement where the AdultBirthday object is assigned to happy variable is an error.
	oc. The one defined for AdultBirthday because that is the type of the object referred to by happy.
	d. The one closest in the source code to the happy.greeting() statement.

```
Question 6
                     Given the following:
Complete
                     1. class Over {
Marked out of
                     2. int doStuff(int a, float B. {
1.00
Flag question
                            return 7;
                     4.
                     5. }
                     6.
                     7. class Over2 extends Over {
                     8. // insert code here
                     9. }
                     Which method, if inserted at line 8, will not compile?
                      a. private int doStuff(int x, double y) { return 4; }
                      b. public int doStuff(int x, float y) { return 4; }
                      o. private int doStuff(int x, float y) {return 4; }
                      d. protected int doStuff(int x, float y) {return 4; }
```



Question 8 Complete	Which of these keywords can be used to prevent Method overriding?			
Marked out of 1.00	a. protectedb. finalc. staticd. constant			
Question 9 Complete	Given the following:			
Marked out of	class Foo { String doStuff(int x) { return "hello"; }			
Flag question	} Which method would not be legal in a subclass of Foo?			
	 a. int doStuff(int x) { return 42; } b. public String doStuff(int x) { return "Hello"; } c. protected String doStuff(int x) { return "Hello"; } d. String doStuff(int x) { return "hello"; } 			

	Which one of the following statement is false?		
Complete			
Marked out of	a. A subclass must override all the methods of the superclass.		
1.00	○ b. Inheritance defines a is-a relationship between a superclass and its subclasses.		
Flag question			
	© c. It is possible for a subclass to define a method with the same name and parameters as a method defined by the superclass.		
	d. Aggregation defines a has-a relationship between a superclass and its subclasses.		
Question 11	If a class inhoriting an abstract class does not define all of its function than it will be known as		
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Complete			
	If a class inheriting an abstract class does not define all of its function then it will be known as?		
Complete Marked out of 1.00			
Complete Marked out of	a. None of the mentioned		
Complete Marked out of 1.00	a. None of the mentionedb. A simple class		

Question 12	Which statement is true?
Complete	
Marked out of 1.00	a. Public methods of a superclass cannot be overridden in subclasses.
♥ Flag question	b. Private methods of a superclass cannot be overridden in subclasses.
	c. Protected methods of a superclass cannot be overridden in subclasses.
	d. Methods with default access in a superclass cannot be overridden in subclasses.

Question 13	Given the following code:
Complete	class MySuper {
Marked out 1.00	of final int calculate(int i, int j) {
₹ Flag que	return i * j;
	}
	}
	public class MySub extends MySuper {
	int calculate(int i, int j) {
	return 2 * i * j;
	}
	public static void main(String[] args) {
	MySuper sup = new MySub();
	int k = sup.calculate(2, 5);
	System.out.println(k);
	}
	}
	What is the result?
	○ a. 10
	b. An exception is thrown at runtime
	c. Compilation error
	Od. 20

Find the one digit to be removed to form palindrome

Question 14 Complete	Which declaration prevents creating a subclass of a top level class?
Marked out of 1.00	 a. private class Javacg{} b. final abstract class Javacg{} c. abstract public class Javacg{} d. final public class Javacg{}
Question 15	Which one of the following statements is true?
Complete Marked out of 1.00 Flag question	a. An abstract class can not extend a concrete class.b. An abstract class can be instantiated.
	c. An abstract class is implicitly final.d. An abstract class can declare non-abstract methods.
Question 16	What is the process of defining a method in subclass having same name & type signature as a method in its superclass?
Complete Marked out of 1.00	a. Method overriding
▼ Flag question	b. Method hidingc. Method overloading

Question 17	Which statement is true?	
Complete		
Marked out of 1.00	a. A subclass can override any method present in a superclass.	
	b. The parameter list of an overriding method must be a subset of the parameter list of the method that it is overriding.	
	c. Private methods of a superclass cannot be overridden in subclasses.	
	od. An overriding method can declare that it throws more exceptions than the method it is overriding.	

```
Question 18
                    What will be the result of attempting to compile and run the following program?
Complete
                    public class Polymorphism2 {
Marked out of
                     public static void main(String[] args) {
1.00
                     A ref1 = new C();
F Flag question
                     B ref2 = (B) ref1;
                     System.out.println(ref2.g());
                    class A {
                     private int f() {
                      return 0:
                     public int g() {
                     return 3;
                    class B extends A {
                     private int f() {
                     return 1;
                     public int g() {
                     return f();
                    class C extends B {
                     public int f() {
                      return 2;

    a. The program will compile without error and print 1 when run.

    b. The program will compile without error and print 2 when run.
```

Question 19	What is an abstract method?
Complete	
Marked out of 1.00	a. An abstract method is any method in an abstract class.
Flag question	 b. An abstract method is one without a body that is declared with the reserved word abstract
	c. An abstract method is a method in the child class that overrides a parent method.
	O d. An abstract method is a method which cannot be inherited.
Question 20	Which statement is true?
Question 20 Complete	Which statement is true?
Complete Marked out of	Which statement is true? • a. It is possible for a subclass to define a method with the same name and parameters as a method defined by the superclass.
Complete	
Complete Marked out of 1.00	a. It is possible for a subclass to define a method with the same name and parameters as a method defined by the superclass.

Question 21	In the below class, is constructor overloaded or is method overloaded?
Complete	
Marked out of 1.00	public class A
Flag question	{
	public A()
	{
	//> (1)
	}
	void A()
	{
	//> (2)
	}
	}
	o a. Method
	O b. None of the mentioned
	c. Both constructor and method
	Od. Constructor

Question 22 Complete	Can an abstract class define both abstract methods and non-abstract methods?
Marked out of 1.00	a. No-it must have all abstract methods.b. No-it must have all one or the other.
Flag question	c. Yes-but the child classes do not inherit the abstract methods.
	od. Yes-the child classes inherit both.

Question 23	What will be the result of attempting to compile and run the following program?
Complete	public class Polymorphism {
Marked out of 1.00	public static void main(String[] args) {
₹ Flag question	A ref1 = new CO;
	B ref2 = (B) (ref1);
	System.out.println(ref2.f());
	1
	class A (
	int f() {
	return 0;
	class B extends A {
	int f() {
	return 1;
	class C extends B {
	int f() {
	return 2;
	3
	a. The program will fail to compile.
	b. The program will compile without error, but will throw a ClassCastException when run.
	c. The program will compile without error and print 2 when run.
	d. The program will compile without error and print 1 when run.

Question 24 Complete	Which of these is supported by method overriding in Java?
Marked out of 1.00 Flag question	a. Encapsulationb. None of the mentioned
	c. Abstraction d. Polymorphism

Question 25	What is the output of this program?	
Complete		
Marked out of 1.00	class A	
₹ Flag question	(
	int i;	
	public void display()	
	System.out.println(i);	
	}	
	}	
	class B extends A	
	int j;	
	public void display()	
	(
	System.out.println(i);	
	}	
	}	
	class Dynamic_dispatch	
	public static void main(String args[])	
	8 obj2 = new 80;	
	obj2.i = 1;	
	obj2.j = 2;	
	An	
	r = obj2;	
	r.display();	
)	
	O a. 3	
	® b. 2	
	O a 4	
	O d. 1	

```
Question 26
                   Given:
Complete
                   abstract class Shape {
Marked out of
                     public abstract void draw();
1.00
Flag question
                   public class Circle extends Shape {
                     public void draw() { }
                   Which one of the following statement is correct?
                     a. Shape s = new Shape();
                           s.draw();
                    b. Circle c = new Shape();
                           c.draw();
                    c. Shape s = new Circle();
                           s.draw();
                    Od. Shape s = new Circle();
                           s->draw();
```

Find the one digit to be removed to form palindrome

Lab-08-Logic Building

```
Question 27
                    Given the following:
Complete
                    class A {
Marked out of
                    public void baz() {
1.00
                     System.out.println("A");
Flag question
                    public class B extends A {
                    public static void main(String[] args) {
                     A a = new B();
                     a.baz();
                    public void baz() {
                     System.out.println("B");
                    What is the result?
                    ○ a. B

    b. Compilation fails.

                     c. A

    d. An exception is thrown at runtime.
```

Question 28	Given:
Complete	1. public class TestOverload {
Marked out of 1.00	2.
₹ Flag question	3. public void process() {
	4. }
	5.
	6. public String process() {
	7. return "hello";
	8. }
	9.
	10. public float process(int x) {
	11. return 67.5f;
	12. }
	13.}
	What is the result?
	a. Compilation fails because of an error in line 10.
	b. Compilation succeeds and no runtime errors with class TestOverload occur.
	○ c. Compilation fails because of an error in line 6.
	O d. An exception is thrown at runtime.

Find the one digit to be removed to form palindrome

Question 29	Here is an abstract method defined in the parent:					
Complete	public abstract int sumUp (int[] arr);					
Marked out of 1.00	Which of the following is required in a non-abstract child?					
▼ Flag question						
	○ a. public int sumUp (int[] arr) { }					
	○ b. public double sumUp (int[] arr) { }					
	o c. public abstract int sumUp (int[] arr) { }					
	○ d. public int sumUp (long[] arr) {}					
Question 30	Which statement is true?					
	Which statement is true?					
Complete Marked out of	Which statement is true? • a. The subclass of a non-abstract class can be declared abstract.					
Complete Marked out of 1.00						
Question 30 Complete Marked out of 1.00 Flag question	a. The subclass of a non-abstract class can be declared abstract.					

```
Question 31
                    Given the following:
Complete
                    1. class ParentClass {
Marked out of
                     2. public int doStuff(int x) {
1.00
                           return x * 2;
Flag question
                    5.}
                    7. public class ChildClass extends ParentClass {
                    8. public static void main(String [] args ) {
                           ChildClass cc = new ChildClass();
                           long x = cc.doStuff(7);
                    11. System.out.println("x = " + x);
                    12. }
                    13.
                     14. public long doStuff(int x) {
                     15. return x * 3;
                    16. }
                    17.}
                    What is the result?
                     ○ a. x = 21
                      b. Compilation fails at line 14.
                     oc. Compilation fails at line 2.
```

d x = 14

Question 32 Complete	What is an abstract class?
Marked out of	a. An abstract class is another name for "base class."
1.00	○ b. An abstract class is one without any child classes.
♥ Flag question	c. An abstract class is a class which cannot be instantiated.
	 d. An abstract class is any parent class with more than one child class.
Question 33	Given the following,
Complete	1. abstract class A {
Marked out of 1.00	2. abstract short m1();
Flag question	3. short m2() { return (short) 420; }
	4.}
	5.
	6. abstract class B extends A {
	7. // missing code?
	8. short m1() { return (short) 42; }
	9. }
	Which of the following statements is true?
	a. If class A was not abstract and method m1() on line 2 was implemented, the code would not compile.
	 b. It is legal, but not required, for class B to either make an abstract declaration of method m2() or implement method m2() for the code to compile.
	c. As long as line 8 exists, class A must declare method m1() in some way.

```
Question 34
                     Given the following classes and declarations, which statement is true?
Complete
                     // Classes
Marked out of
                     class Foo {
1.00
                       private int i;
Flag question
                        private void f() { /* ... */ }
                       public void g() { /* ... */ }
                     class Bar extends Foo {
                       public int j;
                       public void g() { /* ... */ }
                     // Declarations:
                     // ...
                       Foo a = new Foo();
                        Bar b = new Bar();
                     // ...

 a. The statement a.g(); is legal.

                      b. The statement b.f(); is legal.
                      o c. The statement b.i = 3; is legal
                      od. The statement a.j = 5; is legal.
```

Find the one digit to be removed to form palindrome

Question 35 What would be the result of attempting to compile and executing the following code? Complete // Filename: MyClass.java Marked out of public class MyClass { public static void main(String[] args) { F Flag question C c = new C();System.out.println(c.max(13, 29)); class A { int max(int x, int y) { if (x > y)return x; else return y; class B extends A { int max(int x, int y) { return super.max(y, x) - 10; class C extends B { int max(int x, int y) { return super.max(x + 10, y + 10); a. The code will fail to compile because the max() method in B passes the arguments in the call super.max(y, x) in the wrong order. b. code will compile without errors and will print 39 when run. c. The code will fail to compile because a call to a max() method is ambiguous. d. code will compile without errors and will print 29 when run.