Exam

Name_____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

 is invoked to create an object. A) A method with a return type C) A constructor 	B) A method with the void return typeD) The main method	1)
2) Which of the following statement is false?A) Constructors do not have a return type, r	not even void.	2)
 B) At least one constructor must always be C) Constructors must have the same name a D) A default no-arg constructor is provided declared in the class. E) Constructors are invoked using the new 	as the class itself. I automatically if no constructors are explicitly	
 3) The default value for data field of a boolean ty respectively. A) false, 1, null B) true, 0, null C) true, 1, null D) true, 1, Null E) false, 0, null 	pe, numeric type, object type is,	3)
 4) Which of the following statement is flase? A) Local variables do not have default value B) A variable of a reference type holds a ref C) You may assign an int value to a reference D) Data fields have default values. E) A variable of a primitive type holds a value 	erence to where an object is stored in the memory. ce variable.	4)
5) Analyze the following code:		5)
<pre>public class Test { public static void main(String[] args) { double radius; final double PI= 3.15169; double area = radius * radius * PI; System.out.println("Area is " + area); } }</pre>		
 A) The program has a compile error because B) The program has no compile errors but v initialized. C) The program compiles and runs fine. D) The program has compile errors because 	vill get a runtime error because radius is not	

public class Test { int x;		
<pre>public Test(String t) { System.out.println("Test"); }</pre>		
<pre>public static void main(String[] args) { Test test = new Test(); System.out.println(test.x); } }</pre>		
 A) The program has a compile error because you can defines the object. B) The program has a compile error because System the constructor. 	-	
C) The program has a compile error because x has D) The program has a compile error because Test d		
 7) Given the method heading: public int addCans A) This method will return an integer B) This method will receive an integer value C) This method may have the statement can D) This method may have the method cans + x 	ns = cans + x;	7)
8) If there are two or more constructors for a class,A) overloadedB) objectized	the constructor is said to be: C) encapsulated D) duplicated	8)
9) The main purpose of a constructor is to:A) initialize instance variablesC) return a value	B) construct a method D) name the method	9)
 10) If you do not explicitly assign a value to a String initialized to a default value of A) null C) blank (which means "") 	g instance field, the instance field is B) 0 D) it is not initialized	10)
 11) If you do not explicitly assign a value to a nume initialized to a default value of A) 0 C) blank (which means "" 	eric instance field, the instance field is B) null D) it is not initalized	11)
12) Local variables die whenA) the method exitsC) the program ends	B) the object is no longer in useD) you explicitly delete them	12)

6)

13) Which of the following is a valid constructorA) public Boat(String model)C) public boat(String model)					
14) Assume the variable declarations below for th		14)			
int $x = 3$, $y = 2$, $z = x + y$;					
Which of the following output statements correctly displays the sentence below?					
 3 + 2 = 5 A) System.out.print(x + " + " + y + " = " + z B) System.out.print(x + "+" + y + "=" + z); C) System.out.print(x + y + " = " + z); D) System.out.print(x + y = z); 	z);				
15) Which of the following is not a primitive data		15)			
A) String B) int	C) char	D) boolean			
16) You use the operator to access me		16)			
A). B)%	C) *	D) ()			
17) The default constructor has no arguments.A) true	B) false		17)		
18) All local variables in a method have default values.A) trueB) false			18)		
19) Analyze the following code:			19)		
class Circle {					
private double radius;					
<pre>public Circle(double radius) {</pre>					
radius = radius;					
}					
 A) The program has a compilation error because you cannot assign radius to radius. B) The program will compile, but you cannot create an object of Circle with a specified radius. The object will always have radius 0. C) The program does not compile because Circle does not have a default constructor. 					

C) The program does not compile because Circle does not have a default constructor.

D) The program has a compilation error because it does not have a main method.

20) Which of the following statements are true?

- A) Constructors are invoked using the new operator when an object is created.
- B) Constructors do not have a return type, not even void.
- C) Constructors must have the same name as the class itself.
- D) Multiple constructors can be defined in a class.
- E) All statements are true
- 21) What is wrong in the following code?

```
class TempClass {
     int i;
     public void TempClass(int j) {
       int i = j;
     }
   }
  public class C {
     public static void main(String[] args) {
       TempClass temp = new TempClass(2);
     }
   }
     A) The program has a compilation error because TempClass does not have a
       constructor with an int argument.
     B) The program compiles and runs fine.
     C) The program compiles fine, but it does not run because class C is not public.
     D) The program has a compilation error because TempClass does not have a default
       constructor.
22) You can declare two variables with the same name in _____.
                                                                                             22)
     A) different methods in a class
     B) a block
     C) two nested blocks in a method (two nested blocks means one being inside the other)
     D) a method one as a formal parameter and the other as a local variable
23) You can always use the default constructor even though the non-default constructors are
                                                                                             23)
   defined in the class.
     A) true
                                                   B) false
```

20)

21)