# Mumbai Educational Trust Institute of Information Technology Core Java

1. How many objects and reference variables are created by the following lines	s of co	ode'
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Employee emp1, emp2, emp3, emp4;

emp1 = new Employee(); emp3 = new Employee();

- a Two objects and three reference variables
- b Three objects and two reference variables
- c Four objects and two reference variables

## d Two objects and two reference variables

- 2. What happens in a method if an unchecked exception is thrown in a try block and there is no matching catch block?
- A: The program ignores the exception
- B: The program halts immediately
- C: The method throws the exception to its caller

#### D: This is not legal, so the program will not compile

- 3. Which of the following statements about abstract classes in Java are true?
  - 1. An abstract class cannot be instantiated.
  - 2. Constructors cannot be abstract.
  - 3. A subclass of an abstract class must defined the abstract methods.
  - 4. Static methods may be declared abstract.

A: Line 1, line 2 and line 3 only

B: Line 1 only

C: Line 1 and line 2 only

D: Line 2 only

- 4. Which constructs an anonymous inner class instance?
- a Runnable r = new Runnable() { };
- b Runnable r = new Runnable(public void run() { });
- c Runnable r = new Runnable { public void run(){}};

### d System.out.println(new Runnable() {public void run() { }});

- 5. Which statement is true about a static nested class?
- a You must have a reference to an instance of the enclosing class in order to instantiate it.

#### b It does not have access to nonstatic members of the enclosing class.

- c It's variables and methods must be static.
- d It must extend the enclosing class.
- 6. Which keyword can protect a class in a package from accessibility by the classes outside the package?

a. private b. don't use any keyword at all (make it default)

c. protected d. final

7. The class java.lang .Exception is

a. protected **b. extends Throwable** 

c. implements Throwable d. serializable

- 8. What happens in a method if an unchecked exception is thrown in a try block and there is no matching catch block?
- a The program ignores the exception

#### b The program halts immediately

- c The method throws the exception to its caller
- d This is not legal, so the program will not compile

9. When Exceptions in Java does arise in code sequence? a. Run Time b. Compilation Time c. Can Occur Any Time d. None of the mentioned 10. Which of these keywords is used to manually throw an exception? b. finally a. try c. throw d. catch 11. Which of the following is not a method of the Thread Class? a.public void run() b.public void start() c.public void exit() d.public final int getPriority() Answer c 12. Which of the methods should be implemented if any class implements the Runnable interface? a. start() b. run() c. wait() d. notify() and notifyAll() 13. What is synchronization in reference to a thread? a. It's a process of handling situations when two or more threads need access to a shared resource. b. Its a process by which many thread are able to access same shared resource simultaneously. c. Its a process by which a method is able to access many different threads simultaneously. d. Its a method that allow to many threads to access any information require. 14. Which of these method waits for the thread to terminate? a. sleep() b. isAlive() c. join() d. stop() 15. What is the size of float and double in java? a.32 and 64 b. 32 and 32 c. 64 and 64 d. 64 and 32 Answer a 16. When an array is passed to a method, what does the method receive? b. A copy of the array a. The reference of the array c. Length of the array d. Copy of first element 17. When is the object created with new keyword? a. At compile time b. At runtime c. Depends on the code d. None 18. Identify the corrected definition of a package. a. A package is a collection of editing tools b. A package is a collection of classes and interfaces c. A package is a collection of classes d. A package is a collection of interfaces Answer b 19. Identify the keyword among the following that makes a variable belong to a class, rather than being defined for each instance of the class.

c volatile

d abstract

d None

b static

20. In which of the following is toString() method defined? **a java.lang.Object** b java.lang.String c java.lang.util

a final

String str1 = a. Replaces single oc c. Replaces single oc		• • •	all occurrence of 'e' to 's'
22. Where does the s	system stores parame <b>b. Stack</b>	eters and local variab c. Array	les whenever a method is invoked? d. Tree
23. Identify the mod a. public	ifier which cannot be <b>b. static</b>	used for constructor. c.protected	d. private
24. What is the impli a. No return type c. void	cit return type of con		n which it is defined
25. When is the final <b>a. Before garbage</b> c. Before a variable g	collection	b. Before an object d. None	goes out of scope
26. Identify the infin a. for(;;) c. for(int i=0;;i)	ite loop.	b. for(int i=0;i<1;i- d. All of above	-)
27. Where is System a. java.lang.package c. java.io.package		b. java.util.package d. None	
a. "is a kind of" rel b. "has a" relationshi c. "want to be" relati	ip onship not describe any kind		en classes
29. In object-oriente an example of: a. Encapsulation	d programming, new b. Interface	c. Composition	ed by extending existing classes. This ion <b>d.Inheritance</b>
<ul><li>a. The method sleep</li><li>b. The method wait(</li><li>c. Execution of the st</li></ul>	) is called		
31.A protected mem <b>a. subclass</b> c. class in the curren	ber declared in a clas t package		class in the current package.
32. Given threads t1 a. t1	and t2. In its run me b. t2	ethod t1 executes t2.j c. main	join(), thread will be blocked.  d. All of the above
	ify methods are mem : java.lang.Thr		nitor All of the above
34. Public members	of a non-public class	are not accessible ou	tside its package.

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21. What does the following string do to given string str1.

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35. An interface canr a. TRUE	not inherit from multip <b>b. FALSE</b>	ole inter	faces.		
	rganization of related b. namespace				d. None of the above
37. All the fields of a a. transient	n interface are public b <b>. final</b>			default.	d. Both of the above
•	rd is used for making b. <b>synchronized</b>			d-safe.	d. None of the above
	lement interface erializable zable	b. java	_	le	of its objects.
40. Final key word ca a. Class	an be applied to b. Field	c. metl	hod	d. All	of the above
•	rd is used for making <b>b. synchronized</b>				e of the above
•	lement interface erializable zable	b. java	_	le	of its objects.
43. Final key word ca a. Class		c. metl	hod	d. All	of the above
44. To apply static bi	inding on methods use b. virtual				ods e of the above
45. To check object i a. =	dentity we can use b. instanceof	C. ===		d. Non	e of the above
46. Finalize, Final, Final, Finally	nally, out of this follown b. Final	wing is c. Fina			ndling e of the above
47. Checked Exception a. Compile time	on are checked at b. Runtime	c. Both		d. Non	e of the above
48. Checked Exception a. Throwable	ons are inherited from b. Runtime	Except c. Exce		d. Non	e of the above
a. You have call final	to release its resourd ize on object plement Autoclosea		• •	o call cl	ose on object

a. TRUE

b. FALSE

50. Functional Interfa <b>a. Interfaces which</b> b. Interfaces which h c. Interfaces which h d. None of the above	n have only or lave only one ir ave only one in	mplementedm	ethod	ract method
51. To create thread, a. Object of class wh c. Annonymous which	ich implements	Runnable	b. Lamda Expression	
52. Which of the folloa. Public	owing is not an b. Protected	access modifi	er in java? c. Default	d. None of the above
53. exception using t a. Checked Excepti c. Both I and 2		s called as	b. Unchecked Exce d. None of the abov	
54. Is there any limit a. No c. Yes			5 characters is the	e maximum length
55. Can we reference <b>a. Yes</b> c. No			but only in case of	
56. Which package ba. util		led in java app <b>c. Lang</b>	olication? d. ap	pplet
57. class B extends A method will get called A ob= new B(); ob.dostuff(); a. dostuff() of B	d if you say			from A. which  d. None of the above
58. String s1="hello"			- ,	d. Notice of the above
return true? a. s1 == s2	b. s1.equals(	·		one of the above
<ol> <li>The run() method</li> <li>The start() method</li> <li>The init() method</li> </ol>	should be directed should be should be directed should be directed.	ctly invoked or directly invo ctly invoked or	n the Object. <b>oked on the Objec</b> n the Object.	om the Thread class?  t.  new thread and invoke its run()
return a value of the a. No	type that we s	pecify? I from a supe		S Object to take a parameter or subclass's method has the

d. None of the above

- 61. Which of the following statement is false?
- 1. The super keyword works hand in hand with inheritance.
- 2. Inheritance gives a class implicit access to its super classes.
- 3. The super keyword is not essential to the workings of constructors.
- 4. The automatic default constructor has no parameter.

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62.
class DAC {
public static void main(String[] s) {
String s1 ="A", s2 = " B ", s3 = "C";
s2.trim();
s3.concat("D");
System.out.print(s1+s2+s3);
}
}
What is the Result Of the Program?
a. Prints: ABC
                            b. Prints: A B C
                                                         c. Prints: ABCD
                                                                              d. Prints: ABDC
63.Inner Class cannot Declare _____ variables
                                                                              d. Transient
a. Static
                            b. Protected
                                                         c. Final
64. A: Entries are Organized as key/value pairs
B: Duplicate entries replace old entries
Which interface of java.util package offer the specialized behaviour?
                                                                              d. None of The Above
a. List
                            b. Map
                                                         c. Set
65. Which type of variables cannot be serialized?
a.Transient
                            b.Final
                                                                              d.None of the Above
                                                         c.Private
66.Class CDAC {
public static void main(String[] args){
StringBuffer sb1=new StringBuffer("ABC");
StringBuffer sb2=new StringBuffer("ABC");
System.out.print("Prints:"+(sb1==sb2)+","+sb1.equals(sb2));
}
}
What is the result of attempting to compile and run the program?
a.Prints: false, true
                            b.Prints: false, false
                                                         c.Prints: true, false d.Prints: true, true
67. Which method must be defined by a class implementing the java. lang. Runnable interface?
                            b. public void run()
                                                         c. public void start() d. void run(int priority)
a. void run()
68. Which modifer is uesd to stop overridding a method?
a. final
                            b. Static
                                                                              d. None of the above
                                                         c. Abstract
```