Object Oriented Programming CSC2123

Tutorial 2

A. Mark the most suitable answer from the given answers. Multiple inheritance leaves room for a derived class to have _____ 1 dynamic Α private В protected С public D ambiguous 2 The process of building new classes from existing one is called, polymorphism В inheritance С overloading D overriding none of above Which of these keywords must be used to handle the exception thrown by try block in some rational manner? 3 Α try В catch С finally D throw Ε throws If class C is derived from class B, which is derived from class A, all through public inheritance, then class C 4 member function can access, protected and public data only in C and B protected and public data only in C В private data in A and B С D protected data in A and B private data in B Which is not a feature of OOP in general definition 5 Code reusability Α В Modularity С Flexibility Duplicate/ Redundant data D Efficient code Ε Which feature of OOP illustrated the code reusability 6 Polymorphism Α Abstraction В Encapsulation С Method Overloading D Inheritance Ε In OOP public, private, protected are 7 Classes Α Access modifiers В Interfaces C

D

Ε

Variables

Method signatures

8	Which of the following keyword is used to explicitly raise an exception?
	A raise
	B catch
	C throw
	D throws
	E try
9	Private member of a class is visible to
	A every where
	B in sub class
	C In super class
	D members in the same package
	E members of same class only
10	To catch the exceptions
	A an object must be created to catch the exception
	B a variable should be created to catch the exception
	C an array should be created to catch all the exceptions
	D a string have to be created to store the exception
	E a class have to be created to store the exception
11	Keyword that uses to inherit a class
	A extend
	B extends
	C implement
	D implements
	E inherits
12	Universal class for exception handling
	A Object
	B Error
	C Errors
	D Exceptions
	E Maths
13	Which among the following is safe?
	A Down casting
	B Up casting
	C Both up casting and down casting
	D If up casting is safe then down casting is not, and vice versa
	E Both up casting and down casting are not safe
14	A thread become non-runnable when,
	A Its stop method is invoked
	B Its sleep method is invoked
	C Its finish method is invoked
	D Its init method is invoked
	E None of above
15	In java thread can be created by,
	A Extending the thread class
	B Implementing Runnable interface
	C Extending threads class
	D Both extending the thread class and implementing Runnable interface
	E None of above

	(static, immutable, run, polymorphism, thread, catch, interface, yield, non-modifiable, integer)
1	The term polymorphism refers to the fact that a variable can hold objects of different types.
2	In an <u>interface</u> all methods are abstract.
3	The class variable is declared as <u>static</u>
4	Exception generated in try block is caught in <u>catch</u> block
5	The this pointers are <u>non-modifiable</u>
6	Encapsulation helps in writing <u>immutable</u> classes in java
7	Thread priority in java is <u>integer</u> that specify relative priority of one thread to another
8	A single sequential flow of control within a program is <u>thread</u>
9	<u>yield</u> method is used to temporarily release time for other threads.
10	When class extends the Thread class, it should override <u>run</u> method of Thread class to start that thread
1	C Answer the following questions. What is the difference between abstract class and interface? public private
2	Write short notes on access modifiers. protected default
3	Distinguish between following terms A Objects and classes B Data abstraction and data encapsulation C Inheritance and polymorphism D Dynamic binding and message passing
4	What are the differences between default and parameterized constructors?
5	What is the main difference between overloading and overriding?
6	What is the difference between throw, throws and throwable in Java?
7	a What is a thread?b Differentiate between process and thread.
8	What are the advantages of multi-threading?
9	Explain the life cycle of thread
10	Explain the types of variables in java.

В

Fill in the blanks using most appropriate word.