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Grade	0.00 out of 25.00 (0%)

Question **1**
Not answered
Marked out of 1.00

216. Which of the following is the lowest level format to which the computer converts a program in a higher language before execution?

- Select one:
- ☐ a. Assembly language
 - ☐ b. English code
 - ☐ c. System language
 - ☐ d. Machine code

The correct answer is: Machine code

Question **2**
Not answered
Marked out of 1.00

217. A programmer writes a code snippet in which a set of three lines occurs ten times in different parts of the program. What programming concept should be used to shorten the code length?

- Select one:
- ☐ a. Arrays
 - ☐ b. Classes
 - ☐ c. Functions
 - ☐ d. For loops

The correct answer is: Functions

Question **3**
Not answered
Marked out of 1.00

27. A programmer is making a database of animals in a zoo along with their properties. The possible animals are dog, Lion and zebra each one has attributes as herbivorous, Color and nocturnal. The programmer uses the object- oriented programming paradigm for this. How will the system be conceptualized?

- Select one:
- ☐ a. Class: Animal; objects: dog, lion and zebra: data members: herbivorous, color and nocturnal
 - ☐ b. Nome of the above
 - ☐ c. Classes: dog lion and zebra: objects: Animal; data members; herbivorous, color and nocturnal
 - ☐ d. Class: Animal; objects: herbivorous, color and nocturnal: data members: dog lion and Zebra

The correct answer is: Class: Animal; objects: dog, lion and zebra: data members: herbivorous, color and nocturnal

Question **4**

Not answered

Marked out of
1.00

204. A language has 28 different letters in total.

Each word in the language consists of a maximum of 7 letters.

A programmer wants to create a data type to store a word of this language.

She decides to store the word as an array of letters.

How many bits should she assign to the data type to store all kinds of words of the language?

Select one:

- ☐ a. 28
- ☐ b. 35
- ☐ c. 196
- ☐ d. 7

The correct answer is: 35

Question **5**

Not answered

Marked out of
1.00

219. The following operations are performed on an empty stack \hat{A}

Select one:

- ☐ a. 5 6
- ☐ b. 5 1
- ☐ c. PUSH(1)
PUSH(2)
POP
PUSH(5)
PUSH(6)
POP

What will the stack contain after these operations?

(Note: The top of the stack is underlined in the options below.)

{

- ☐ d. 5 6
- ☐ e. 1 5

The correct answer is: 5 1

Question **6**

Not answered

Marked out of
1.00

21. How many nodes does a full binary tree with 'n' non-leaf nodes contain?

Select one:

- ☐ a. $n + 1$
- ☐ b. $2n$
- ☐ c. $\log n$
- ☐ d. $2n + 1$

The correct answer is: $2n + 1$

Question **7**

Not answered

Marked out of
1.00

22. A programmer mistakenly writes 'gor' instead of the keyword 'for' used in loops, while writing a program in C++. What will this result in?

Select one:

- ☐ a. The code would not create any problem.
- ☐ b. The code may work for some inputs and not for the others
- ☐ c. The code would give an error while execution.
- ☐ d. The code would not compile.

The correct answer is: The code would not compile.

Question **8**

Not answered

Marked out of
1.00

223. Which of the following abstract data types can be used to represent a many-to-many relation?

Select one:

- ☐ a. Queue
- ☐ b. Tree
- ☐ c. Stack
- ☐ d. Graph

The correct answer is: Graph

Question **9**

Not answered

Marked out of
1.00

225. Null function is also known as _____.

Select one:

- ☐ a. Void Function
- ☐ b. Anonymous Function
- ☐ c. Generic Function
- ☐ d. null Operator

The correct answer is: null Operator

Question **10**

Not answered

Marked out of
1.00

224. A programmer writes a sorting algorithm that takes different of time to sort two different lists of equal size. What is the possible difference between the two lists?

Select one:

- ☐ a. The ordering of numbers with respect to the magnitude in the two lists has different properties.
- ☐ b. One list has all negative numbers while the other has all positive numbers.
- ☐ c. All numbers in one list are more than 100 while in the other are less than 100
- ☐ d. One list contains 0 as an element while the other does not.

The correct answer is: The ordering of numbers with respect to the magnitude in the two lists has different properties.

Question **11**

Not answered

Marked out of
1.00

211. The following values are to be stored in a hash Table- 15,22,41,19,102,18,37

Using the division method of hashing with a table size of 10 (use sequential method of resolving collision),give the contents of Hash Table.

Select one or more:

- ☐ a. 41,22,102,15,37,18,19,Null, Null, Null
- ☐ b. 41,22,102,15,37,18,19
- ☐ c. Null, Null, Null,41,22,102,15,37,18,19
- ☐ d. Null,41,22,102,Null, 15,Null, 37,18,19

Question **12**

Not answered

Marked out of
1.00

205. How can the largest number in a list of twenty numbers be found?

Select one:

- ☐ a. Implement one iteration of selection sort for descending order and print the first number in the series
- ☐ b. Use selection sort to sort the list in a descending order and the print the first number of the series
- ☐ c. None of the above
- ☐ d. Use bubble sort to sort the list in a descending order and the print the first number of the series

The correct answer is: Implement one iteration of selection sort for descending order and print the first number in the series

Question **13**

Not answered

Marked out of
1.00

214. Two programmers, X and Y, are asked to write a code to evaluate the following expression: $a - b + c/(a-b) + (a-b)^2$ X writes the following code statements (Code A): `print (a-b) + c/(a-b) + (a+b)*(a-b)` Y writes the following code statements (Code B); `d = (a-b) print d + c/d + d*d` Which of the following is TRUE if the time taken to load a value in a variable for addition, multiplicand or division between two operands is the same?

Select one:

- ☐ a. Code A uses lesser memory and is slower than Code B
- ☐ b. Code A uses lesser memory and is faster than Code B
- ☐ c. Code A uses lesser memory and is faster than Code B
- ☐ d. Code A uses lesser memory and is slower than Code B

The correct answer is: Code A uses lesser memory and is slower than Code B

Question **14**

Not answered

Marked out of
1.00

220. Which of the following will create an object named pigeon of the class Bird in C++?

Select one:

- ☐ a. Object pigeon of bird
- ☐ b. None of the above
- ☐ c. bird pigeon
- ☐ d. pigeon bird

The correct answer is: bird pigeon

Question **15**

Not answered

Marked out of
1.00

209. What is the minimum number of stacks of size 'n' required to implement a queue of size 'n'?

Select one:

- ☐ a. 2
- ☐ b. 3
- ☐ c. 4
- ☐ d. 1

The correct answer is: 2

Question **16**

Not answered

Marked out of
1.00

215. _____ is the compile time binding whereas _____ is run time binding of functions.

Select one:

- ☐ a. Varies from program to program
- ☐ b. Function overloading, Function overriding
- ☐ c. Abstraction, Encapsulation
- ☐ d. Function overriding. Function overloading

The correct answer is: Function overloading, Function overriding

Question **17**

Not answered

Marked out of
1.00

208. A developer writes the program given below to print the sum of the squares of the first five whole numbers (0...4). is the program correct? If not, which statement should be modified to correct the program? snippet tool tech pg-83-7
print sum // statement 6

Select one:

- ☐ a. Statement 1
- ☐ b. Statement 4
- ☐ c. No error, the program is correct
- ☐ d. Statement 6

The correct answer is: Statement 4

Question **18**

Not answered

Marked out of
1.00

206. A programmer writes an efficient program to sum two square diagonal matrices (matrices with elements only on the diagonal positions).

The size of each matrix is $n \times n$. What is the time complexity of the algorithm?

Select one or more:

- ☐ a. $O(n)$
- ☐ b. None of the above
- ☐ c. $O(n \cdot \log(n))$
- ☐ d. $O(n^2)$

Question **19**

Not answered

Marked out of
1.00

222. What is a function contained within a class called in c++?

Select one:

- ☐ a. A member function
- ☐ b. An operator
- ☐ c. A class function
- ☐ d. A method

The correct answer is: A member function

Question **20**

Not answered

Marked out of
1.00

202. What is the output of the pseudocode statements given below?

(Note: Assume that when two data types are processed through an operator, the answer maintains the same data type as that of the input. Also, all data types have enough range to accommodate any number. If two different data types are operated upon, the result assumes the data type that is more expressive.)

```
integer a=984, b=10
```

```
float c
```

```
c = a / b
```

```
print c
```

Select one:

- ☐ a. Error
- ☐ b. 98.4
- ☐ c. 98
- ☐ d. 984

The correct answer is: 98

Question **21**

Not answered

Marked out of
1.00

203. What will be the output generated when the given code is executed?

A pseudo- code is used which is self explanatory.

```
snipping tool pg-82-2
```

Select one:

- ☐ a. How are you
- ☐ b. This code will generate a compile time error
- ☐ c. hello
- ☐ d. Hello How are you?

The correct answer is: How are you

Question **22**

Not answered

Marked out of
1.00

228. When a byte code is interpreted, how does it get affected in contrast with the compiled machine code?

Select one:

- ☐ a. It runs faster than the compiled machine code
- ☐ b. It runs slower than the compiled machine code
- ☐ c. Interpretation does not make any difference in the byte code running time
- ☐ d. It has the same running time as of the machine code

The correct answer is: Interpretation does not make any difference in the byte code running time

Question **23**

Not answered

Marked out of 1.00

201. How can a call to an overloaded function be ambiguous?

Select one:

- ☐ a. There might be two or more functions with equality appropriate signature
- ☐ b. The name of the function might have been misspelled
- ☐ c. None of the above
- ☐ d. There might be two or more functions with the same name

The correct answer is: There might be two or more functions with equality appropriate signature

Question **24**

Not answered

Marked out of 1.00

218. A sorting algorithm traverses through a list, comparing adjacent elements and switching them under certain conditions. What is this sorting algorithm called?

Select one or more:

- ☐ a. Heap sort
- ☐ b. Insertion sort
- ☐ c. Quick sort
- ☐ d. Bubble sort

Question **25**

Not answered

Marked out of 1.00

207. How many nodes does a full binary tree with n leaves contain?

Select one:

- ☐ a. $2n + 1$ nodes
- ☐ b. $\log_2 n$ nodes
- ☐ c. $2n$ nodes
- ☐ d. $2n - 1$ nodes

The correct answer is: $2n - 1$ nodes

◀ Tech Test 6

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