Technical MCQ

30 QUESTION 30 MIN

Q.1 The protocol data unit (PDU) for the application layer in the Internet stack is

◯ Segment

◯ Datagram

◯ Message

◯ Frame

Q.2 Assume that Source S and Destination D are connected through an intermediate router R. How many times a packet has to visit the network layer and data link layer during a transmission from S to D?

◯ A Network layer – 4 times, Data link layer – 4 times

◯ B Network layer – 4 times, Data link layer – 6 times

◯ C Network layer – 2 times, Data link layer – 4 times

◯ D Network layer – 3 times, Data link layer – 4 times

Q.3 If there are N people in the world and are using secret key encryption/decryption for privacy purpose, then number of secret keys required will be:

○ N

○ (N - 1)

○ N (N - 1) / 2

○ N (N + 1) / 2

Q.4 A packet filtering firewall can

○ A deny certain users from accessing a service

○ B block worms and viruses from entering the network

○ C disallow some files from being accessed through FTP

○ D block some hosts from accessing the network

Q.5 The network 198.78.41.0 is a

○ A Class A network

○ B Class B network

○ C Class C network

○ D Class D network

Q.6 A collection of hyperlinked documents on the internet forms the ?

○　(a) World Wide Web (WWW)

○　(b) E-mail system

○　(c) Mailing list

○　(d) Hypertext markup language

Q.7 Which one of the following is a valid email address?

○　(a) btechtit@tite.com

○　(b) gmail.com

○　(c) tpoint@.com

○　(d) btechtite@books

Q.8 Which of the following methods is used to extract the length of a string in Java?

○　A. length()

○　B. len()

○　C. sizeof()

○　D. size()

Q.9 What is the full form of AWT?

○ A. Absolute window toolKit

○ B. Abstract window toolKit

○ C. Absolute wear kit

○ D. Abstract window tools

Q.10 What is a map in Java?

○ A. Data structure

○ B. Defined in java.util package

○ C. Represented using key-value pairs

○ D. All of these

Q.11 Which of these is a non-access modifier?

○ A. public

○ B. private

○ C. native

○ D. All of these

Q.12 Which is the correct absolute path of a file in Java?

○ A. C:\Program Files\Java\jdk1.8.0_131\bin\file_name.txt

○ B. C:\Program Files\Java\file_name.txt

○ C. C:\Program Files\Java\jdk1.8.0_131\file_name.txt

○ D. C:\Program Files\Java\jdk1.8.0_131\bin\File Handling\file_name.txt

Q.13 What will be the output of following code?

import java.util.Scanner;

class ThisKeyword {

private int a = **4**;

private int b = **1**;

void getSum(int a, **int** b) {

this.a = a;

this.b = b;

System.out.println(**this**.a + **this**.b);

}

}

public class Myclass {

public static void main(String args[]) {

ThisKeyword T = **new** ThisKeyword();

T.getSum(**3**, **5**);

}

}

○   A. Error

○   B. [mango, orange, guava, mango, apple]

○   C. [mango, orange, guava, apple]

○   D. None of these

Q.14 Boxing is ___.

○ A. Creating new box

○ B. Creating object

○ C. Converting primitive type of object instance

○ D. All of these

Q.15 What will be the output of the following pseudo-code?

Input t = 6, h = 9 and set x = 0
Integer c
if (h > t)
  for (c = t; c < h; c = c + 1)
    x = x + c
  End for loop
  print x
else
    print error message print x

○ A. 21

○ B. 15

○ C. 9

○ D. 6

Q.16 What will be the output of following Java code?

public class Myclass {

  public static void main(String arg[]) {

    int i;

    for (i = **1**; i <= **12**; i += **2**) {

     if (i == **8**) {

      System.out.println(i);

      break;

     }

    }

  }

}

○ A. 1

○ B. No output

○ C. 8

○ D. 1357911

Q.17 What will be the output if limit = 6?

Read limit
n1 = 0, n2= 1, n3=1, count = 1;
while count <= limit
count=count+1
print n3
n3 = n1 + n2
n1 = n2
n2 = n3
End While

- ○ A. 112358
- ○ B. 12358
- ○ C. 123581321
- ○ D. 12358132

Q.18 What will be the output of the following pseudocode for input a = 30, b = 60, C = 90?

Integer a, b, c, sum
Read a, b, c
Set sum = a + b + c
if ((sum EQUALS 180) and (a NOT EQUALS 0) and (b NOT EQUALS 0) and (c NOT EQUALS 0))
    Print " Success"
Otherwise
    Print "Fail"
End if

○ A. Compilation error

○ B. Success

○ C. Fail

○ D. None

Q.19 We should capitalize initial keyword while writing the pseudocode– This is a rule .

○ A. True

○ B. False

○ C. Depends on Code

○ D. Depends on your wish

Q.20 With respect to the rules of pseudocode, which of the following options begins with lower case letters.

○ A. Keywords

○ B. Variables

○ C. Tokens

○ D. Functions

Q.21 Which is not true about the object-oriented approach?

○ A. Emphasis is on data rather than procedure

○ B. Data is hidden and cannot be accessed by external functions

○ C. Objects communicate through functions

○ D. It supports abstract data but not the class

Q.22 To access manipulators the file _____ should be included in the program.

○ A. iomanip

○ B. ios

○ C. #include

○ D. None

Q.23 Which of the following defines a Meta class?

○ A. A Meta class is a class that may not itself have any instances.

○ B. A Meta class is a class of a class.

○ C. Meta classes are classes that are different than plain classes.

○ D. All of the above

Q.24 Which access specifiers have strict access control?

○ A. Private

○ B. Public

○ C. Protected

○ D. Package

Q.25 _____ refers to the ability to perform operations without knowing the type of object they'll be operated on.

○ A. Abstract base class

○ B. Abstract class

○ C. Polymorphism

○ D. Operator overloading

Q.26 Select the correct operator which cannot be overloaded.

○ A. Scope Resolution Operator (::)

○ B. Ternary Operator (? :)

○ C. Member Access or Dot Operator (.)

○ D. All of the above

Q.27 Which is correct with respect to the size of the data types in C?

○ A. char > int > float

○ B. char < int < float

○ C. int < char < float

○ D. int < chat > float

Q.28 What will be the output of the following code?

#include <stdio.h>

int main()

{

   float x = **21.0**;

   x %= **3.0**;

   printf("%f",x);

   return 0;

}

○ A. 7

○ B. 7.00

○ C. 7.000000

○ D. Error

Q.29 What will be the output of the following code?

#include <stdio.h>

```
int main()

{

    int a,b,c;

    a=0x10; b=010;

    c=a+b;

        printf("%d",c);

        return 0;
}
```

○ A. 20

○ B. 24

○ C. Garbage

○ D. Error

Q.30 What will be the output of the following C code?

#include <stdio.h>

 int main()

{

   char str1[] = "Hello";

   char str2[10];

   str2 = str1;

   printf("%s,%s", str1, str2);

   return 0;

}

   ◯ A. Hello,

   ◯ B. Hello,Hello

   ◯ C. Hello,HelloHello

   ◯ D. Error