**Question : 1**

A program is said to be Structured if

*( Choose one )*

The program is divided into different program modules

the Program has Structures

Data structures are not used

If it is well documented

**Question : 2**

What is your observation on the below code?  
  
import java.util.\*;  
public class Q8 {  
 public static void main(String[] args) {  
 int i,item;   
 Scanner sc = new Scanner(System.in);  
 for(i=1,item=1;i<=4;++i)   
 {   
 System.out.println(i);   
 i = sc.nextInt();   
 }   
 }  
}

*( Choose one )*

Infinite Loop when 0 is given continuously  
Loop will terminate when 5 is given

Loop will not be executed more than 4 times   
Next iteration will be considered when zero is given

Loop will execute 4 times irrespective of the input given

Error

**Question : 3**

class Test {  
 public static void main(String args[]) {  
 int[] arr = {1,2,3,4};  
 call\_array(arr[0], arr);  
 System.out.println(arr[0] + "," + arr[1]);   
 }  
 static void call\_array(int i, int arr[]) {  
 arr[i] = 8;  
 i = 3;  
 }   
}

What will be the output of the program

*( Choose one )*

1,1

1,3

1,8

1,0

**Question : 4**

Writing the steps of the program is called

*( Choose one )*

High level Design

Flow Chart

Pseudocode

Low level Design

**Question : 5**

Which of the following statement is wrong?

*( Choose one )*

a=123

a=' '+4

a=4\*'T'

a+5=T

**Question : 6**

Which of the following cannot be used to name identifiers?

*( Choose one )*

Letters

Digits

Underscore

Spaces

**Question : 7**

To find the factorial of num, what code should be written in place of '------------'?  
  
public static void main(String[] args) {  
 int num,factorial;   
 num=5;  
 factorial=1;   
 while(num>0)   
 {  
 -----------------  
 }   
 System.out.println("Factorial"+factorial);   
 }

*( Choose one )*

* factorial=1;  
  factorial=factorial\*num;  
  --num;
* factorial=factorial\*num;  
  --num;
* factorial=factorial\*num;  
  ++num;
* factorial=1;  
  factorial=factorial\*num;  
  ++num;

**Question : 8**

The following improves the readability and maintainability of the program

*( Choose one )*

Indentation

Updated Comments

Appropriate User defined variable names

All of the above

**Question : 9**

public class Q4 {  
public static void main(String args[])  
{  
 int arr[][][] ={{1, 2},{3, 4},{5, 6},{7, 8},{9, 10},{11, 12}};  
 System.out.println(arr[4][1]);  
}  
}

*( Choose one )*

11

12

10

9

**Question : 10**

Algorithm and Flowchart help us to

*( Choose one )*

Know the memory capacity

Identify the base of a number system

Direct the output to a printer

Specify the problem completely and clearly

**Question : 11**

Which of the following is concantenating operator?

*( Choose one )*

Apostrophe (‘)

Exclamation (!)

Ampersand (&)

Plus(+).

**Question : 12**

What is the output of below code?  
  
public static void main(String[] args) {  
 int a = 60;   
 System.out.println(a << 2);  
  
 }

*( Choose one )*

60

120

240

30

**Question : 13**

public static void main(String[] args) {

int counter=5,number = 10;

do

{

counter--;

number/= counter;

}while(counter>0);

System.out.println(number);

}

}

What is the output of the given code snippet?

*( Choose one )*

0

1

floating point exception

Divide by zero error

**Question :** **14**

public static void main(String[] args) {  
 int i=1,j=2;  
 i++;   
 j--;  
 if(i/j > 1)  
 i++;  
 System.out.println(i+j);  
 }

What is the output of the above code:

*( Choose one )*

21

31

4

None of the above

**Question : 15**

The following code is written to check if 'num' is a/an \_\_\_\_\_\_\_\_\_\_\_  
  
int n,i=1,sum=0;  
 while(i<n){  
 if(n%i==0)  
 sum=sum+i;  
 i++;  
 }  
</n){

*( Choose one )*

* square number  
  [the product of a number multiplied by itself]
* odd number  
  [An odd number is an integer which is not a multiple of two.]
* prime number  
  [a whole-number whose only two whole-number factors are 1 and itself]
* perfect number  
  [a perfect number is a positive integer that is equal to the sum of its proper positive divisors, that is, the sum of its positive divisors excluding the number itself ]

**Question : 16**

aiInt is an integer array of 40 elements with 2050 being the starting address, What would be the address of the thirty seventh element Assume that integer occupies 4 bytes of memeory and the address are mentioned in decimal

*( Choose one )*

4\*37

2050+(4\*36)

2050+ (4\*37)

2050+(4\*40)

**Question : 17**

A program has the following peice of code snippet  
---------------------------------------------------------------  
Call Para1  
Display "good morning"  
Exit.  
  
Para1 : Display "Hello"  
---------------------------------------------------------------  
After executing "Call Para1" which statement will be executed?

*( Choose one )*

Display "Hello"

Display "good morning"

Exit

None of the above

**Question : 18**

public class Q5 {  
 public static void main(String[] args) {  
 int count = 10;  
 while(count-->0)  
 {  
 System.out.println("\*");  
 } }}

What is the output of the above code snippet?

*( Choose one )*

9 stars

10 stars

11 stars

infinite loop

**Question : 19**

Which of the following will not increment the value of i?

*( Choose one )*

++i

i=i+1

i+++

i+=1

**Question : 20**

int a[] = { 'a', 'b', 'c' };  
for (int i = 0; i<2; i++)  
System.out.println(a[i]);

*( Choose one )*

a b

a b c

97 98

error

**Question : 21**

What will be the value of count?  
int count = 0;  
for(i=1;i<5;i=++i-2)  
{   
 count++;  
}

*( Choose one )*

Infinite

1

2

3

**Question : 22**

Which of the following requires explicit casting?

*( Choose one )*

int i = 5000; double d = i;

long l = 23545; float f = l;

double d = 12321;long l = d;

double d = (6.5/2.0) + 100 \* 0.5;

**Question : 23**

Where do we use the Arrow in the flowchart?

*( Choose one )*

* An arrow coming from one symbol and ending at another symbol represents that control passes to the symbol the arrow points to.
* Output to printer
* For taking user input
* Input from Files

**Question :** **24**

Which of the following implementation check for multiple condition with single execution?

*( Choose one )*

If

switch-case

Loop

Until

**Question :** **25**

What is the output of the below code?  
Integer i = 34;  
 String str = (i<21)?"jan":(i<56)?"feb":"march";  
 System.out.println(str);

*( Choose one )*

feb

march

jan

null

**Question :** **26**

Which of the following are valid declarations?  
1. int i = 0XCAFE;  
2. boolean b = 0;  
3. char c = 'A';  
4. byte b = 128;  
5. char c = "A";

*( Choose one )*

1,2,3

1,4

1,3

1,4,5

**Question : 27**

A computer Program that translates one program instruction at a time into machine language is called \_\_\_\_\_\_.

*( Choose one )*

Translator

Compiler

Assembler

Interpreter

**Question : 28**

What will be the output of the below code:  
  
public static void main(String[] args) {  
 int n=65;  
 char c = 'A';  
 if (n==c)   
 System.out.println("Equal");  
 else  
 System.out.println("NotEqual");  
 }

*( Choose one )*

Equal

NotEqual

Error as int and char cannot be equalized

Error in the declaration

**Question : 29**

How many times the loop will execute?

for(int i=0;i<=10;i++)

{

i++;

}

*( Choose one )*

0

6

7

8

**Question : 30**

What is the output of the following code?  
public class Q3 {   
 static int i=10;  
 public static void main(String[] args) {   
 int i =20;   
 System.out.println(i);   
 i = 30;   
 fun();   
 }   
 static void fun()   
 {   
 System.out.println(i);   
 } }

*( Choose one )*

* 10  
  10
* 20  
  30
* 20  
  10
* Error

**Question : 31**

What is the output of the following code?  
class Q1  
{  
public static void main(String args[])   
{  
float b=7.4f;  
System.out.println((int)b);  
}  
}

*( Choose one )*

7.4

7

Error

**Question : 32**

In a flowchat, \_\_\_\_\_\_\_ symbol represents the process.

*( Choose one )*

oval

rectangle

Paralelogram

circle

**Question : 33**

What will the output of the following code be?  
  
 int x;  
 for(x=-1; x<=10; x++)  
 {  
 if(x < 5)  
 {  
 System.out.println("Welcome");  
 continue;  
 }   
 else  
 break;   
 }

*( Choose one )*

Welcome displayed 11 times

Welcome displayed 10 times

Welcome displayed 6 times

Welcome displayed 5 times

**Question : 34**

Which lines of the below code never gets executed:  
Line1: int i;  
Line2: for(i=0;i<5;i++){  
Line3: if( i==2) {  
Line4: printf("i=2 hence breaking");  
Line5: break;  
Line6: }  
Line7: else if (i == 3) {  
Line8: printf("i=3 hence continuing");  
Line9: i=0;  
Line10: continue;}  
Line11: }

*( Choose one )*

Line 8, Line 9 and Line 10

Line 8 and Line 9

Line 5, Line 8, Line 9 and Line 10

Line 9 and Line 10

**Question : 35**

The if ... else keyword in a pseudocode is similar to the \_\_\_\_\_\_\_\_\_\_\_\_\_ symbol in a flowchart.

*( Choose one )*

Oval

Rectangle

Paralelogram

Rhombus

**Question : 36**

int aplusb(int a,int b)  
{   
 return a,b;  
}  
  
int main(){  
   
 int c=aplusb(3,2);  
   
 System.out.println(c);  
 }

*( Choose one )*

compilation error

3

2

5

**Question : 37**

What is the output of the below code

int i,j=3;

for(i=3;i<0;i--) { j++; }

switch(j) {

case (0) : j=j+1;

case(1): j=j+2;

break;

case (2) : j=j+3;

break;

case (10) : j=j+10;

break;

default :

break;

}

System.out.println(j);

*( Choose one )*

9

5

3

0

**Question : 38**

What is the output of the following code snippet?  
int i=5;  
do while{  
 System.out.println(i++);  
 }

*( Choose one )*

5 6 7 8 9

compile time error

5 6 7 8 9 10 11

5 6 7 8

**Question : 39**

What will be output of the following code?  
int x=20,y=10;  
 y=x++;  
 x=y+x;  
 y+=x;  
 if(x==y)  
 System.out.println("equal");  
 else  
 System.out.println("not equal");

*( Choose one )*

Equal

not equal

error

**Question : 40**

The most commonly used standard data code to represent alphabetical, numerical and punctuation characters used in electronic data processing system is called

*( Choose one )*

ASCII

ACSII

EDCDIC

EBCDIC

**Question : 41**

"Switch…case" cannot be applied on   
  
a. integer.  
b. Enum.  
c. Float.  
d. character

*( Choose one )*

b only

c only

d only

c and d

**Question : 42**  
public static void main(String args[])  
{  
 int i = 0;  
 for(i=0;i<++i;);  
 switch (i)  
 {  
 case '0': System.out.println("case1");  
 break;  
 case '1': System.out.println("Case2");  
 break;  
 default: System.out.println("Default Case");  
 }  
}

What is the output of given code snippet?

*( Choose one )*

case1

Case2

Default Case

Error

**Question : 43**

What is the ouptut of the below code:  
  
public void foo( boolean a, boolean b)  
{  
if( a )  
{  
System.out.println("A"); /\* Line 5 \*/  
}  
else if(a && b) /\* Line 7 \*/  
{  
System.out.println( "A && B");  
}  
else /\* Line 11 \*/  
{  
if ( !b )  
{  
System.out.println( "notB") ;  
}  
else  
{  
System.out.println( "ELSE" ) ;  
}  
}  
}

*( Choose one )*

If a is true and b is true then the output is "A && B"

If a is true and b is false then the output is "notB"

If a is false and b is true then the output is "ELSE"

If a is false and b is false then the output is "ELSE"

**Question : 44**

What is the ouput of the below code,  
  
public class Test {  
public static void main(String[] args) {  
 System.out.println("String "+1\*3);  
}  
}

*( Choose one )*

String

String Infinity

String 3

Compile error

**Question : 45**

What will be the output of the following code?  
int iCount = 2;  
 switch (iCount) {  
 default:  
 printf("INVALID\n");  
 break;  
 case 1:  
 printf("ONE\t");  
 case 2:  
 printf("TWO\t");  
 case 3:  
 printf("THREE\t");  
 }

*( Choose one )*

Error

THREE INVALID

ONE TWO THREE

TWO THREE INVALID

TWO THREE

**Question : 46**

int i,j=5;  
i=j++ + ++j;  
System.out.println(i);

What is the output of given code snippet?

*( Choose one )*

* 11  
  i=5 + 6
* 12  
  i=6+6
* 12  
  i=5+7
* 13  
  i=6+7

**Question : 47**

Predict the output of the below code snippet

int x=-1,y=-1;

if(++x=++y)

System.out.println("Dhoni");

else

System.out.println("Sachin");

*( Choose one )*

Sachin

Dhoni

no result

Invalid tenure

compilation error

**Question : 48**

Preprocessing happens

*( Choose one )*

Before Linking

Before Compiling

Before EXE is created

After execution

**Question : 49**

class Test{

public static void main(String [] args){

int x= 2;

int y= 1;

for (int z = 0; z < 5; z++){

if (( ++x > 2 ) || (++y > 2)){

x++;

}}

System.out.println(x + " " + y);

}

}

What is the output of the program?

*( Choose one )*

8 2

8 6

12 1

12 6

**Question : 50**

public static void main(String[] args) {  
 int n;   
 for (n = 9; n!=0; n--)   
 System.out.println("\t"+ n--);   
   
 }

What is the output of given code snippet?

*( Choose one )*

9 8 7 6 5 4 3 2 1

9 7 5 3 1

9 7 5 3 1 -1

Inifinite loop