



- Q.9- Which of the following is the reference data type?  
 a. char                      b. boolean  
 c. arrays                     d. none of these
- Q.10- Name the return type of the main() method.  
 a. void                        b. static  
 c. int                         d. none of these
- Q.11- The String objects are \_\_\_\_\_ in Java.  
 a. Mutable                    b. Immutable  
 c. Arguments                d. None of these
- Q.12- Fill in the blanks:  
 MyFuncobj = new \_\_\_\_\_;  
 a. Myfunc()                  b. class name  
 c. MyFunc()                 d. none of these
- Q.13- A method is a named block of code within a \_\_\_\_\_.  
 a. Function                  b. Scope  
 c. Class                      d. None of these
- Q.14- \_\_\_\_\_ is referred to the two situations when there are two or more possible matches in the invocation of an overloaded method.  
 a. Method Invocation  
 b. Ambiguous invocation  
 c. Initialization  
 d. None of these
- Q.15- ASCII codes of upper case alphabets ranges from :  
 a. 65 - 90                    b. 60 - 85  
 c. 96 - 91                    d. None of these
- Q.16- The words which are preserved with the system are called \_\_\_\_\_ words, which are not used as variable names in Java programming.  
 a. reserved key  
 b. Normal key  
 c. Identifier  
 d. None of these
- Q.17- The statement  $n += 4$  is equivalent to :  
 a.  $++n$   
 b.  $n = n + 4$   
 c.  $n + 1$   
 d. none of these
- Q.18- Octal equivalent of decimal number 122 is :  
 a. 172                        b. 173  
 c. 171                        d. None of these
- Q.19- \_\_\_\_\_ in a Binary number are grouped together to get octal number.  
 a. 4 bits                      b. 3 bits  
 c. 5 bits                      d. None of these
- Q.20- Which of the following is not an example of Hexadecimal number?  
 a. 1C2                        b. 2A.1  
 c. 67GA                      d. None of these
- Q.21- Which of the following number system has radix 8?  
 a. Binary number system  
 b. Decimal number system  
 c. Octal number system  
 d. None of these
- Q.22- After counting 1011, 1100 the next binary number is:  
 a. 1111                      b. 1110  
 c. 1101                      d. None of these
- Q.23- The number 110011 is equivalent to decimal number :  
 a. Fifty-two                 b. Fifty-five  
 c. Fifty-one                 d. None of these
- Q.24- In Octal numbers, to shift the Octal point one place to the right of it, we :  
 a. multiply it by 8  
 b. divide it by 8  
 c. divide it by 10  
 d. none of these
- Q.25- The binary addition  $1 + 1 + 1 + 1$  gives :  
 a. sum = 1, carry = 2  
 b. sum = 0, carry = 2  
 c. sum = 1, carry = 1  
 d. None of these
- Q.26-  $(43)_{10} \rightarrow (?)_2$   
 a. 101011                    b. 110111  
 c. 110101                    d. none of these
- Q.27-  $(285)_{10} \rightarrow (?)_8$   
 a. 350                        b. 435  
 c. 650                        d. none of these
- Q.28-  $(1101)_2 \times (1010)_2$   
 a. 10101101                b. 10000010  
 c. 1101001                 d. none of these
- Q.29-  $(11101)_2 + (11011)_2 \rightarrow (?)_2$   
 a. 100111                    b. 100011  
 c. 111000                    d. none of these
- Q.30- Divide  $(11110)_2$  by  $(110)_2 \rightarrow (?)_2$   
 a. 101                        b. 110  
 c. 11                         d. none of these
- Q.31- Nibble is a group of :  
 a. 2 bits                      b. 4 bits  
 c. 8 bits                      d. none of these
- Q.32- Which is de-Morgan's Law?  
 a.  $(a + b)' = a'b'$   
 b.  $(a - b)' = a' + b$   
 c.  $a + a'b = a + b$   
 d. none of these

- Q.33- Involution law is :
- $(x')' = x$
  - $1 + x = x$
  - $0 + x = x$
  - none of these
- Q.34- Given :  $P$  and  $P \Rightarrow Q$  conclusion is  $Q$   
This rule is known as :
- Modus Ponens
  - Chain rule
  - Converse
  - None of these
- Q.35- Given  $p \Rightarrow q$  and  $q \Rightarrow r$  conclusion is  $p \Rightarrow r$ . This rule is :
- Modus Ponens
  - Chain rule
  - Contrapositive
  - None of these
- Q.36- Example of universal gate :
- AND
  - NAND
  - XOR
  - none of these
- Q.37- Expression for full adder of sum is :
- $a \oplus b \oplus c$
  - $ab + bc + ca$
  - $a \odot b \odot c$
  - none of these
- Q.38- Carry expression for full adder is:
- $ab + bc + ca$
  - $a \oplus b \odot c$
  - $abc$
  - none of these
- Q.39-  $A + A = ?$
- $A$
  - $2A$
  - $1$
  - none of these
- Q.40-  $A + 1 = ?$
- $1$
  - $0$
  - $A$
  - none of these
- Q.41- Wrapping up of data and function into a single unit is called :
- inheritance
  - modularity
  - encapsulation
  - none of these
- Q.42- Which is not a characteristic of Java?
- light weight code
  - open product
  - pointer's use
  - none of these
- Q.43- \_\_\_\_\_ operator access instance members of an object members of a class.
- \*
  - .(dot)
  - ?
  - none of these
- Q.44- double data type takes \_\_\_\_\_ bytes.
- 8
  - 16
  - 32
  - none of these
- Q.45- Default value of boolean variable is :
- false
  - true
  - False
  - none of these
- Q.46- \_\_\_\_\_ is data member of a class having same name of a class.
- Constructor
  - Object
  - Method
  - None of these
- Q.47- The \_\_\_\_\_ keyword is used to refer to currently calling object.
- construction
  - this
  - for
  - none of these
- Q.48- A function can return \_\_\_\_\_ values.
- 1
  - 2
  - 3
  - none of these
- Q.49- The function call in which the data is actual parameters remain intact is known as :
- call by value
  - call by reference
  - call parameters
  - none of these
- Q.50- The function call in which the data in actual parameters gets changed is known as:
- call by value
  - call by reference
  - return by value
  - none of these
- Q.51- One function, many definitions is called :
- function overriding
  - function overloading
  - function loading
  - none of these
- Q.52- Which is wrapper class?
- Boolean
  - Int
  - long
  - none of these
- Q.53- Return type of `compareTo()` is :
- long
  - boolean
  - int
  - none of these

- Q.54- An array is a normal collection of elements of similar type that are store at \_\_\_\_\_memory.
- adjacent
  - single
  - anonymous
  - none of these
- Q.55- Binary Search is an efficient technique because :
- takes less no. of steps
  - gives correct result
  - takes more steps
  - none of these
- Q.56- While declaring an array \_\_\_\_\_ brackets are placed after array name?
- { }
  - ( )
  - [ ]
  - none of these

**Read the code segment carefully and answer from Q.No. 57 to Q.No. 61**

This program segment/function is for insertion sort technique in ascending order :-

```
void insertionSort(int arr[], int n)
{
    int i, val, j;
    for(i = 1; i < n; i++) {
        val = arr[i];
        j = i - 1;
        while(j >= 0 && arr[j] > val) {
            arr[j + 1] = arr[j];
            j--;
        }
        arr[j + 1] = val;
    }
}
```

- Q.57- ?1? can be replaced by :
- i
  - arr[i]
  - 0
  - none of these
- Q.58- ?2? can be replaced by :
- while
  - if
  - for
  - none of these
- Q.59- ?3? can be replaced by :
- i
  - arr[i]
  - n
  - none of these

- Q.60- ?4? can be replaced by :
- i = i - 1
  - j = j - 1
  - n - 1
  - none of these

- Q.61- ?5? can be replaced by :
- arr[i]
  - arr[j+1]
  - j
  - none of these

- Q.62- A set of character is assigned to :
- string variable
  - static variable
  - boolean variable
  - none of these

- Q.63- The words which are preserved with the system are called \_\_\_\_\_ words, which are not used as variable names in Java programming.
- reserved key
  - normal key
  - identifier
  - none of these

- Q.64- Java Virtual Machine (JVM) is an :
- Interpreter
  - Compiler
  - Machine Code
  - None of these

- Q.65- Java is case sensitive. What is most appropriate with respect to this context?
- Upper and lower case letters are distinguished.
  - Upper and lower case letters are ignored.
  - Only lower case letters are distinguished.
  - None of these

- Q.66- To find the square root of a number which of the following package is required?

- java.txt
- java.math
- java.lang
- none of these

- Q.67- Which of the following is not a Java reserved word?

- private
- public.
- break
- none of these

- Q.68- Which is most suited to Blue J?

- A window based platform.
- A DOS based platform.
- Both (a) & (b)
- None of these

- Q.69- The high level language program when converted to machine level, is known as :
- source code
  - object code
  - program code
  - none of these
- Q.70- A constant which gives the exact representation of data is called:
- variable
  - literal
  - Identifier
  - none of these
- Q.71- A word used in a high level language which has a special meaning attached to it is called :
- class
  - identifier
  - keyword
  - none of these
- Q.72- A character literal is assigned to a :
- char variable
  - char type literal
  - string variable
  - none of these
- Q.73- Which of the following results in integertype?
- 11.4 F/3.2 D
  - 13.8 F/4.6 F
  - 12/3
  - None of these
- Q.74- Which of the following type is exact representation of fractional values?
- char
  - double
  - byte
  - none of these
- Q.75- What will be output of a & b in the following,  
if int a, b; a = 10, b = ++a?
- 10, 10
  - 10, 11
  - 11, 10
  - None of these
- Q.76- If int a = 43; int b 5; int c=0 what value is stored in c when c = a % b?
- 8.6
  - 8.0
  - 0
  - None of these
- Q.77- When the statements are executed sequentially in a program, the construct is known as :
- iteration
  - sequence
  - selection
  - none of these
- Q.78- To execute a loop 10 times, which of the following statement satisfies?
- for(x = 6; x <= 26; x = x + 2)
  - for(x = 3; x <= 30; x = x + 3)
  - both (a) & (b)
  - none of these
- Q.79- In a nested loop, which loop closes at last?
- innermost loop
  - outermost loop
  - inner & outer together
  - none of these
- Q.80- How many times the loop, for (i =1; i++) will execute, if there is no statement to terminate the loop?
- 1
  - infinite
  - 0
  - none of these
- Q.81- A loop statement is given as :  
while(flag)  
{  
Statement(s)  
}  
the loop statement will be executed and repeated until the value of flag becomes:
- 0
  - 1
  - true
  - none of these
- Q.82- Which of the following methods is used to join strings?
- getchars( )
  - strcat( )
  - concat( )
  - none of these
- Q.83- What will be the output of the following statement, when executed?  
System.out.println("APPLICATION".charAt(4));
- L
  - I
  - P
  - none of these
- Q.84- Give the output of the following statement:  
System.out.println("KAROLBAGH".length());
- 10
  - 11
  - 9
  - none of these
- Q.85- Which of the following operator is used to concatenate two strings?
- +
  - \*
  - #
  - none of these
- Q.86- String declaration is terminated by :
- ;
  - ;
  - ;
  - none of these

Q.87- What is the return type of the following method?

```
x.equals(y)
```

- a. yes or no
- b. true or false
- c. right or wrong
- d. none of these

Q.88- "VIDYALAYA".substring(2, 5) will result :

- a. DYA
- b. YAL
- c. ALA
- d. None of these

Q.89- What will the following code output?

```
String S = "Malayalam";  
System.out.println(s.indexOf('m'));
```

- a. 5
- b. 0
- c. 9
- d. none of these

Q.90- State the value of n and ch :

```
char c = 'A';  
int n = c + 1;  
char ch = (char)n;
```

- a. n = 66, ch = B
- b. n = 65, ch = A
- c. n = 64, ch = C
- d. none of these

Q.91- Which of the following is correct usage?

- a. int a[-40]
- b. int a[40]
- c. float a[0-40]
- d. none of these

Q.92- Which element is represented with a[10]?

- a. 10th
- b. 9th
- c. 11th
- d. none of these

Q.93- Cell numbers of a dimensional array is also known as :

- a. packets
- b. blocks
- c. subscripts
- d. none of these

Q.94. The following statement :

```
int code[ ] = {35,73, 83, 24};
```

- a. Assign 73 to code[1]
- b. Assign 35 to code[1]
- c. Assign 83 to code[3]
- d. None of these

Q.95- Which of the following function finds the size of array?

```
char m[] = {'R', 'A', 'J', 'E', 'N', 'D', 'R', 'A'};
```

- a. m.sizeof(a)
- b. m.elements of(m)
- c. m.length
- d. none of these

Q.96- Parameters used in function call statement are known as:

- a. defined parameter
- b. passed parameter
- c. actual parameter
- d. none of these

Q.97- Parameters used in the function definition are called:

- a. forward parameter
- b. actual parameter
- c. formal parameter
- d. none of these

Q.98- The process of calling a function in such a way that the change in formal arguments reflects on actual parameter is known as:

- a. call by reference
- b. call by value
- c. call by method
- d. none of these

Q.99- A package is a :

- a. collection of data
- b. collection of functions
- c. collection of classes
- d. none of these

Q.100- The maximum number of objects of a class type can be created :

- a. 1
- b. 2
- c. as many as user requires
- d. none of these

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