

1. Choose the correct option:- [10]

- i. What will be the result of $5 > 3 \ \&\& \ 2 < 4$?
 a.true b. false c. compiler error d. runtime error
- ii. The default package associated with java program is :
 a. util b. io c. math d. lang
- iii. choose the odd one out:
 a. + b. - c.% D. &&
- IV. Find the value of `Math.max(Math.round(-53.6),Math.round(53.6));`
 a. -54 b.53 c. 54 d.-53
- v. arrange the following primitive data type in ascending order of their size:-
 char , byte , double , int
 a. char byte int double b. double int char byte c. int char byte double d. byte char int double
- vi. `System.out.println(Math.sqrt(24-25));`
 a. -1.0 b. runtime error c. 1.0 d. Syntax error
- vii. Which among the following class does not belong to the java.lang package?
 a. System b. Scanner c. String d. Math
- viii. Total number of relational operator s are present in java
 a. 4 b. 5 c. 6 d. 7
- ix. Exposing only essential features while hiding unnecessary details is _____
 a. Data hiding b. encapsulation c. abstraction d. modularity
- x. fall through occurred due to absence of _____ statement
 a. break b. continue c. default d. case

2. What will be the output: [5 X 2 = 10]

- i.

```
int r; char g='b';
r=(g=='A')?'B' : ' b ';
System.out.println("r="+r);
```
- ii.

```
int m=100 , n=101;
if (++m==n++ && ++m+n>300)
System.out.println(m%n);
else
System.out.println(n/m);
```
- iii. `int a=21, b=4,c; c=a++ + 2 * ++b - a % b;`
- iv.

```
int a=2, b=6 ;
if !(a>b)
System.out.println(a);
else
System.out.println(b);
```
- v. `System.out.println(Math.sqrt(196) + Math.pow(49,0.5));`

3. Write the java expression: $|^5/(a + b)|$ [2]

4. Rewrite the following ternary operator to if-else: [2]

```
int m=400;
double p=(m>=300)? (m/10.0)*2: ( m /20.0)*2;
```

5. Write the difference between if- else and switch-case. [2]

6. Write the difference between = and ==. [2]

7. What is nested if? Write about fall through [2]

8. Write the programs in Bluej:- [15 * 2=30]

- i. Accept an integer and do the following menu driven program:-
 - 1.find its square and cube root.
 2. If number is less than 10 , then add 0.45 and find the smallest whole number that is greater than or equal to the number.
 3. Find the random integer between 5 and 10 both inclusive.
 4. Accept another integer b and find a^b .
- ii. An ICSE board display a notice regarding admission in class XI and choose the proper Stream as per given criteria:-

Marks obtained in different subjects

Eng, Maths, Science $\geq 80\%$

Eng, Science $\geq 80\%$ and Maths $\geq 60\%$

Eng, Science, Maths $\geq 60\%$

Enter marks of English, Science and Math from the user. Calculate and print the Stream of the candidate.

Stream

Pure Science

Bio Science

commerce