**STD 9** **SELF-ASSESSMENT TEST 2** **F.M = 20** **TIME : 45 MINS**

Q1. Write short notes: [ 4 ]

i. Short-hand operators ii. Operator associativity
iii. Logical operators iv. Implicit conversion

Q2. Differentiate between ( state two points of distinction for each ): [ 2 ]

i. x++ and ++x ii. Expression and statement

Q3. Arrange the operators in ( descending ) order of their precedence: [ 2 ]

?: ++ = = = + && > *

Q4. Classify the following operators as unary, binary or ternary: [ 2 ]

a) ! b) && c) ++ d) =

Q5. Given the code fragment: [ 2 ]

```
int var = 'A';
System.out.println( var++ ) ;
System.out.println ( var ) ;
```

i) What will be the output of the above code ?
ii) What will be the output if var++ is replaced by var + 1 ?

Q6. Write the JAVA expression for the following mathematical expression: [ 2 ]

$$\sqrt{3x-5} + \left[\frac{(p+r)^4}{(s+p)}\right]$$

Q7. WAP to accept an integer number from the user and display its absolute value.
[ Do not use any mathematical function to solve this problem. ]
An absolute value is a number without sign i.e. it is always positive. The absolute value of 3 is 3 and the absolute value of -4 is 4. [ 3 ]

Q8. WAP to accept two integer numbers ( in two variables x and y respectively) from the user and display the square of their difference if x is greater than y, otherwise, display the cube of their sum. [ 3 ]

----- x -----