SAMPLE QUESTIONS:

For questions 1 to 3, mark a on the opscan sheet if the statement is legal in Fortran; Otherwise mark b.

1. \( X = X + 6 \)

2. \( X + 6 = X \)

3. \( X = 10.0 / 4 + 5 \)

For questions 4 to 6, select the value of the given Fortran expression. Note that a decimal point indicates a floating point result.

4. \( 12 / 3.0 + 5 / 2 \)
   
a) 4.5   b) 6   c) 6.0   d) 6.5   e) Not legal   f) None of the above

5. \( 10 / 3 * 9 \)
   
a) 30   b) 27   c) 30.0   d) 0.37037   e) Not legal   f) None of the above

6. \( 9.0 - 6.0 / 2.0 + 3.0 \)
   
a) 9.0   b) 6.0   c) 4.5   d) 0.6   e) not legal   f) None of the above

7. In the Fortran 90 language, the ampersand (\&) is used as a
   
   a) separator   b) generator   c) continuation character   d) None of them
For questions 8 to 10, mark a on the opscan sheet if the given variable name is valid in Fortran 90, Otherwise mark b.

8. annual_salary

9. 2nd_quarter_sales

10. G.P.A

For questions 11 and 12, select the correct Fortran arithmetic expression for the given algebraic expression.

11. \( x^y + 5 \)
   
   a) \( x \cdot y + 5 \)  
   b) \( x^{(y + 5)} \)  
   c) \( x^{**} y + 5 \)  
   d) \( xy + 5 \)  
   e) None of the above

12. \( ab^x + c^y + 3d \)
   
   a) \( a \cdot b^{**} x + c^{**} y + 3 \cdot d \)  
   b) \( a \cdot b \cdot x + c \cdot y + 3d \)  
   c) \( ab^{**}x + c^{**}y + 3 \cdot d \)  
   d) \( abx + cy + d^3 \)  
   e) None of them

For questions 13 to 15, assume the following input data for READ statements.

Cols: 12345678901234567890
       21346.789128.567

INTEGER :: i, j
REAL :: x
READ (9,100) i, j, x
100 FORMAT(I2, I3, F6.2)
13. i
   a) 2       b) 21       c) 13       d) 1
   e) None of them

14. j
   a) 345       b) 134       c) 213       d) 467
   e) None of them

15) x
   a) 6.7890       b) 0.789       c) 0.78
   d) None of them