

# Step Academy official

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STUDENT NAME	
PAPER CODE	51834
TIME ALLOWED	60
Paper Date	05-02-2026



CLASS	New 1st Year (FSC/ICS)
SUBJECT	Mathematics
TOTAL MARKS	25
Paper Type	

Q1. Choose the correct answer.

5X1=5

1. A fraction in which degree of numerator is less than degree of denominator is called:

(A) Algebraic relation      (B) Improper fraction      (C) Proper fraction      (D) Equation

2.  $x^2+x-6=0$  is.....:

(A) Conditional equation      (B) Identity      (C) Proper fraction      (D) Improper fraction

3.  $\frac{x^2+1}{q(x)}$  will be proper fraction if degree of  $q(x) = \dots$ :

(A) 0      (B) 3      (C) 2      (D) 1

4.  $\frac{9}{(x+2)^2(x-1)} = \frac{A}{x-1} + \frac{B}{x+2} + \dots$

(A)  $\frac{C}{x+2}$       (B)  $\frac{C}{(x+2)^2}$       (C)  $\frac{C}{x-2}$       (D) None of these

5.  $\frac{x^4}{1-x^4}$  is an .....

(A) Proper fraction      (B) Improper fraction      (C) Decimal      (D) equation

Q2. write the answers of following questions.

5X2=10

1. Resolve the following into partial fraction:  $\frac{x+1}{(x-1)^2}$

2. Resolve the following into partial fraction:  $\frac{12x^2-48}{(x-2)^2(x+2)^2}$

3. Resolve  $\frac{x^2-10x+13}{(x-1)(x^2-5x+6)}$  into partial fractions.

4. Resolve into partial fractions:  $\frac{2x+1}{(x-2)(x^2+3x+5)}$

5. Resolve into partial fractions:  $\frac{x^4}{x^4+2x^2+1}$

Q3. write the answers of following questions.

2X5=10

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1 . Resolve  $\frac{4x^2}{(x^2+1)^2(x-1)}$  into partial fraction.

2 . Resolve into partial fractions:  $\frac{6x^4+40x^2}{(4-x^2)(x^2+4)^2}$