

Step Academy official

Model Town Grw PH: 03016652757

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 $q(x)$ =.....:

- (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: $\frac{x^4}{x^4+2x^2+1}$

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

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