	Choose the correct answer.			
1.	$\frac{9x^2}{x^3-1}$ is			
	(a) improper fraction	(b) proper fraction	(c) polynomial	(d) equation
2.	$\frac{x^2-3}{3x+1}$ is			
	(a) polynomial	(b) equation	(c) improper fraction	(d) proper fraction
3.	$x^3 + 2x^2 - 3x + 5$ is			
	(a) an equation	(b) a polynomial	(c) proper fraction	(d) improper fraction
4.	An open sentence formed by using the sign of equality "=" is called			
	(a) an identity	(b) a polynomial	(c) an equation	(d) none of these

(a) an identity (b) a polynomial fraction of
$$\frac{ax+b}{(cx+d)^2} =$$

(a)
$$\frac{A}{cx+d} + \frac{B}{(cx+d)^2}$$
 (b) $\frac{A}{cx+d} + \frac{Bx+C}{(cx+d)^2}$ (c) $\frac{Ax+B}{cx+d} + \frac{C}{(cx+d)^2}$ (d) none of these

6. Partial fraction of
$$\frac{7x+25}{(x+3)(x+4)} =$$

(a)
$$\frac{3}{x} + \frac{5}{x+4}$$
 (b) $\frac{6}{x+4} + \frac{5}{(x+4)^2}$ (c) $\frac{4}{x+3} + \frac{3}{x+4}$ (d) none of these

- 7. A fraction in which the degree of the numerator is less then degree of the denominator is called (a) polynomial (b) equation (c) proper fraction (d) improper fraction
- The quotient of two polynomials $\frac{P(x)}{O(x)}$ where $Q(x) \neq 0$ with no common fraction is called a
 - (b) rational fraction (a) an expression (d) identity (c) equation
- $(x+3)(x+4) = x^2 + 7x + 12$ is
 - (a) quadratic equation (b) linear equation (c) cubic equation (d) identity

10. Partial fraction of
$$\frac{1}{(x^2+1)(x+1)} =$$

(a)
$$\frac{A}{x^2+1} + \frac{B}{x+1}$$
 (b) $\frac{Ax+B}{x^2+1} + \frac{C}{x+1}$ (c) $\frac{A}{x^2+1} + \frac{Bx+C}{x+1}$ (d) none of these

- 11. A relation in which the equality is true only for some values of the unknown is called (a) an identity (b) an equation (c) a polynomial (d) none of these
- 12. A relation in which the equality is true for all values of the unknown is called (a) an identity (b) an equation (c) a polynomial (d) none of these
- 13. Partial fraction of $\frac{ax+b}{(cx^2+d)^2}$ =

(a)
$$\frac{A}{cx^2+d} + \frac{B}{(cx^2+d)^2}$$
 (b) $\frac{Ax+B}{cx^2+d} + \frac{Cx+D}{(cx^2+d)^2}$ (c) $\frac{Ax+B}{cx^2+d} + \frac{C}{(cx^2+d)^2}$ (d) none of these

- 14. Partial fraction of $\frac{1}{x^3-1}$ =
 - (a) $\frac{A}{x+1} + \frac{B}{x^2 x + 1}$ (b) $\frac{A}{x-1} + \frac{B}{x^2 + x + 1}$ (c) $\frac{A}{x-1} + \frac{Bx + C}{x^2 + x + 1}$ (d) none of these
- 15. Partial fraction of $\frac{x^3-1}{(x+2)(x+3)}$
- (a) $\frac{A}{x+2} + \frac{B}{x+3}$ (b) $\frac{A}{x+2} + \frac{Bx+C}{x+3}$ (c) $\frac{Ax+B}{x+2} + \frac{Cx+D}{x+3}$ (d) none of these
- 16. $\frac{3x^2+1}{x-2}$ can be written as
 - (a) $\frac{A}{x-2}$
- (b) $\frac{Ax+B}{x-2}$ (c) $3x+6+\frac{13}{x-2}$ (d) none of these
- 17. A fraction in which the degree of the numerator is greater than or equal to the degree of denominator is (a) a proper fraction (b)an improper fraction (c) an equation (d) an identity
- 18. Expressing a rational fraction as a sum of partial fraction is called

 - (a) partial fraction (b) partial fraction resolution (c) both of above
- (d)none of these

- 19. Partial fraction of $\frac{x^2 + 1}{(x+1)(x-1)} =$
- (a) $\frac{2}{x+1} \frac{4}{x-1}$ (b) $\frac{2}{x+1} + \frac{4}{x-1}$ (c) $1 \frac{1}{x+1} + \frac{1}{x-1}$ (d) none of these
- 20. When a rational fraction is separated into partial fractions, the result is
 - (a) an equation
- (b) non equation
- (c) identity
- (d) none of these

For updates visit <u>http://www.mathcity.org</u>

Made by MUHAMMAD IMRAN QURESHI (http://www.mathcity.org/imran)