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MGQs - Gk # 5: F.Sc Part 1

TEXT BOOK OF ALGEBRA AND TRIGONOMETRY CLASS XI

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 $d) \frac{3}{(x-1)^3}$

Dantial Enactions

Partial r	ract	SIORS
1. An open formed by using the sign of equality "=" is called	6.	$\frac{9x^2}{x^{3-1}}$ is a fraction.
a) Equation		a) rational fraction
a) Equation		b) improper fraction
b) In – equation		c) rational fraction
c) True sentence		d) none of these
d) False sentence		
2. $2x = 3$ is a conditional equation it is true for	7.	$\frac{x^2-3}{3x+1}$ is a fraction
		a) rational fraction
a) 2		b) proper fraction
b) 3		c) improper rational fraction
a) 2 b) 3 c) $\frac{3}{2}$ d) $\frac{2}{3}$		d) none of these
c) ${2}$		
2	8.	There are types of rational
d) $\frac{2}{3}$	fracti	on.
3		a) three
2 2		b) four
3. $x^2 + x - 6 = 0$ is a conditional equation and it is		c) five
true for		d) two
a) 2, 3 b) 2, -3 c) -2, -3 d) -2, 3	9.	The partial fraction of $\frac{1}{x^2 - 1}$ is a) $\frac{1}{2(x-1)} - \frac{1}{2(x+1)}$
4 777 1 1 1 1 1 1 6		
4. The symbol shall be used both for equation and identity		b) $\frac{1}{2(x-1)}$
a) ≅		c) $\frac{1}{2(x+1)}$
b) =		
c) ≠ d) ≡		d) $\frac{1}{2(x-1)} + \frac{1}{2(x+1)}$
5. $\frac{P(x)}{Q(x)}$, Q(x) \neq 0 is known as	10.	The partial fraction of $\frac{2x^2 - 3x + 4}{(x-1)^3}$ is
a) improper rational fraction		a) $\frac{2}{x-1}$
b) rational fraction		
c) proper rational fraction		b) $\frac{1}{(x-1)^2}$
d) none of the above		$(x-1)^2$
		c) $\frac{2}{x-1} + \frac{1}{(x-1)^2} + \frac{3}{(x-1)^3}$
		$(x-1)^2 (x-1)^3$

11. The partial fraction of
$$\frac{9x-7}{(x^2+1)(x+3)}$$
 is

a)
$$\frac{17x-6}{5(x^2+1)}$$

b)
$$\frac{17x-6}{5(x^2+1)} - \frac{17}{5(x+3)}$$

$$c) \frac{17}{5(x+3)}$$

d) none of these

12. The partial fraction of
$$\frac{x^3 + 2x + 2}{(x^2 + x + 1)^2}$$
 is

a)
$$\frac{x-1}{x^2 + x + 1}$$

b)
$$\frac{2x+3}{(x^2+x+1)^2}$$

c)
$$\frac{2x+3}{(x^2+x+1)^2} - \frac{x-1}{x^2+x+1}$$

d)
$$\frac{x-1}{x^2+x+1} + \frac{2x+3}{(x^2+x+1)^2}$$

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