lame:	Subject: Mathematics	Class: 10 <sup>th</sup> Time: 80 minutes	Total Marks: 3
Chapter No.04	MJ	Dexpert.com	Obtained marks
of Q	ttempt any 10 short question uestion 3. Cutting and removes the correct answer. $(6 \times 1 = 6)$	al of any content is strictly p	•
1. The conditional equation	on $5x = 4$ is true if x=		r
a) $\frac{5}{4}$	b) $\frac{4}{5}$	c) 4	d) 5
2. Partial Fraction of $\frac{x^2+1}{x^3+1}$ a) $\frac{A}{(x+1)} + \frac{B}{(x^2+x+1)}$	is.:		
a) $\frac{A}{(m+1)} + \frac{B}{(m^2+m+1)}$	b) $\frac{A}{(x+1)} + \frac{Bx+C}{(x^2-x+1)}$	c) $\frac{A}{(x+1)} + \frac{Bx+C}{(x^2+x+1)}$	d) None of the
	ree of numerator is equal to the de		is called:
		-	1
a) Proper Fraction	b) Improper Fraction	c) Rational Fraction	d) None of these
4. To resolve rational frac	tion, multiply both side by:		
a) L.C.M	b) H.C.F	c) An even number	d) An odd number
5. The quotient is indicate			1
a) Comma (.)	b) Bracket ( )	c) Bar (–)	d) Hyphen(!)
6. The quotient of two nu	mbers or expressions is called:		T
a) Fraction	b) Ratio	c) Proportion	d) None of these
	Question No 2. Short	t Question 8x2=16	
i. Define rational Fract	ion?		
ii. Define improper Fra	ction		
iii. Resolve into partial	fraction $\frac{x^2+1}{x^3+1}$ by finding A only.	com	
iv. Define conditional e			
v. Resolve into Partial I	Fraction $\frac{(x-11)}{(x-4)(x+3)}$		
vi. Resolve into Partial I	Fraction $\frac{1}{x^2 - 1}$		
vii. Resolve into Partial I	7~_25		
viii. How can we make p	artial fractions of?		

## **Q.No.3 Answer the long questions.** $(4 \times 2 = 08)$

	$x^2+1$
a) F	Resolve into partial fraction $\overline{x^{3}+1}$ .
b) F	Resolve into partial fraction $\frac{1}{(x+1)(x-1)^2}$ .