Maths, 10th, Annual (2020) Name:	, ID:	
Paper: <u>Maths</u>	PUBLIC SCI	Total Marks: <u>15</u>
Month Test: <u>Annual</u>	* * *	Obt. Marks:
Theme/Unit: <u>Complete</u>	UE THE MIR	Grand Total: <u>75</u>
Objective:	ID:	Time:20 mins
Roll No:	class: <u>10th</u>	Section:
	Pre Board Exa	<u>ms</u>
Q. No. 1: Encircle the corre	-	
i). An equation of the type	$9.3^{\circ} + 3^{\circ} + 6 = 0$ is a/an	•
a. Reciprocal		c. Linear
b. Exponential	o to polyo guadratia agu	d. Radical
ii). The number of method	s to solve quadratic equ	alion are: c. 3
a. 1		
b. 2	٠. ما،	d. 4
iii). In a ratio a:b "a" is calle	eu.	a Concoguent
a. Relation		c. Consequent
b. Antecedent	unity in:	d. None
iv). Product of cube root of	unity is.	c1
a. 0 b. 1		d. 3
	cot A ic 2 and in cot P i	
is:	Set A is 3 and in Set D i	s 4, then number of element in A x B
a. 3		c. 12
b. 4		d. None
		u. None
vi). $\frac{3\pi}{4}$ radian =		
a. 115º		c. 150°
b. 135°		d. 30°
	nt occurring observation	
a. Mean		c. Mode
b. Median		d. Variation
-	in a plane equidistant fro	om a fixed point is called:
a. Circle		c. Radius
b. Diameter	. 2 . 2.	d. None
ix). The third proportional o	•	2
a. $\frac{x^2}{y^2}$	b. $\frac{y^2}{x^2}$	C. $\frac{y^2}{x^4}$
d. <i>none</i>	~	~
x). 135° into radian is:		
a. $\frac{4\pi}{7}$		C. $\frac{5\pi}{4}$
•		
b. $\frac{5\pi}{3}$		d. $\frac{3\pi}{4}$

xi). If $A \subseteq B$ then A-B is equal to:

2 Maths, 10th, Annual (2020) Name:	, ID:
 a. A b. B xii). Cosec²θ – cot²θ = a. 1 b1 xiii). The different number of way a. 1 b. 2 xiv). A data in the form of frequer a. Grouped data b. Ungrouped data xv). The arcs opposite to incongruent of a. Perpendicular 	c. B-A d. Φ c. 0 d. Tanθ s to describe a set are: c. 3 d. 4 ncy distribution is called: c. Histogram d. Frequency polygon central angles of a circle are always c. Congruent
b. Parallel	d. Incongruent
Paper:Maths Month Test:Annual Theme/Unit:Complete	Total Marks: Obt. Marks: Grand Total:
Subjective: ID:	Time: 2 hours
Subjective.	Time2 nours
	<u>10th</u> Section:
Roll No: class:	Jection.
Pre E Q. No. 2: Solve the following Question i). Define exponential equation? ii). Write quadratic equation having ro iii). Find third proportional to a ³ , 3a ² . iv). Find direct variation. v). Solve by factorization 3y ² = y(y-5) vi). Define ratio and give one example Q. No. 3: Solve the following:	Board Exams us: /12 uots 0, -3.
Pre E Q. No. 2: Solve the following Question i). Define exponential equation? ii). Write quadratic equation having ro iii). Find third proportional to a³, 3a². iv). Find direct variation. v). Solve by factorization 3y² = y(y-5) vi). Define ratio and give one example Q. No. 3: Solve the following: i). Resolve into partial fraction: x-1/(x-4)(x-4)(x-4)(x-4)(x-4)(x-4)(x-4)(x-4)	Board Exams us: /12 uots 0, -3. /12 11 (x+3)
Pre E Q. No. 2: Solve the following Question i). Define exponential equation? ii). Write quadratic equation having ro iii). Find third proportional to a ³ , 3a ² . iv). Find direct variation. v). Solve by factorization 3y ² = y(y-5) vi). Define ratio and give one example Q. No. 3: Solve the following: i). Resolve into partial fraction: x-(x-4)(x-4)(x-4)(x-4)(x-4)(x-4)(x-4)(x-	Board Exams as: /12 oots 0, -3. /12 11 (x+3)

vi). Define circum angle.

Part - II

Q.5: (a). Solve by factorization:
$$\frac{x+1}{x} + \frac{x}{x+1} = \frac{25}{12}$$

(b). Prove that:
$$x^3+y^3+z^3-3xyz=(x+y+z)(x+wy+w^2z)(x+w^2y+wz)$$
 /4

Q.6 (a). Using theorem of componendo- dividendo: solve the equation. /4

$$\frac{\sqrt{x+3} + \sqrt{x-3}}{\sqrt{x+3} - \sqrt{x-3}} = \frac{4}{5}$$

(b). resolve into Partial fraction:
$$\frac{7x-25}{(x-4)(x-3)}$$
 /4

Q. No. 7: Prove that if two chords of a circle are congruent then they will be equidistant from the centre.

OR

Prove that any two angles in the same segment of a circle are equal.