Section	on-A
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(i)	If $x^2 + 4x^2 - 7x + 3$ is divided by $x - 1$. then remainder is				
	(a) 0	(b)-1		(d) 2	(2)
(ii)	In 35, 30, 10, 48, 10				8 0
	(a) 35	(b) 10	(c) 100	(d) 90	
(iii)	the central angle	of a minor arc	is	than the	inscribed angle of it
corre	sponding major arc.	ų.			E
	(a) Less	(b) Double		(c) Half	(d) None of these
(iv)	If set A contains 7 e	lements and set	B contain	s 3 elements, t	hen AxB contains
order	pairs.				
	(a) 12	(b) 21	-	(c)3	(d) 7
(v)	x' - 0.4x' + 0.04 =	No. 2		8 6	V-V-
	(a) 12 x'-0.4x'+0.04 =	(b) (x-0.2)*	8	(c) $(x^2 + 0.2)^2$	(d) $(x^2 + 0.2)(x^2 - 0.2)$
(Vi)	$\sqrt{1-\sin^2(m \angle A)} = $	· · · · · · · · · · · · · · · · · · ·	8 -12- 11		The state of the s
(Vii)	(a) (b) (c) $\sqrt[4]{8a} =$	(d)	*		
(11)	(a) 2	(b) 3	(0)0	(4) 4	
(viii)	20.000		(6)9	(d)4	
(viii)	The roots of the equ				61 - 1 A
	(a) $\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$	$(b) \frac{b \pm \sqrt{b^2}}{2a}$	4ac	(c) $\frac{-b \pm \sqrt{b^2 + 2a}}{2a}$	4ac (d)None of these
(ix)	25 = 32 is logarithe	mic form is	9/		Pi Company
	(a) $\log_{1} 5 = 32$			(c) log. 32 = 5	(d) $\log .32 = 2$
(x)	The mantissa of the	e logarithem is	(i)	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.7.3.
	(a) Positive	(b) Negative	(c) Bo	th (a) and (b)	(d) None of these
(xi)	If non-commond ar	ms of two adiace	nt angles	are collinear, th	nev are
77 C. T.	(200 일급) [12] [2] [2] [2] [2] [2] [2] [2] [2] [2] [.5.50		

(b) Supplementary Angles

(a) Complementary angles

	(c) Vertical Angles (d) Alternate Angles					
(xii)	The ratio and by is called he sub-duplicate ratio or					
	(a)a:b (b)a:b (c)a:b (d)a:b (d)a:b					
(xiii)	Every plane contains at least non collineur points.					
	(a) 2 (b) 3 (b) 4 (d) None of these					
(xiv)	The degree of the polynomial x·y + y· + y· is					
	(a)2 (b)3 (c)4 (d)5					
(xv)	If a:b=c:d.tjemb:a=d:cthis properties of proportion is called					
	(a) alternando (b) Componendo (c) Dividendo (d) Invertendo					
(xvi)	A series contains from the vertex to the opposite side of a triangle is					
	(a) Altitude (b) Hypotenuse (c) Median (d) None of these					
(xvii)	A perpendicular from the vertex to the opposite side of a traingle is					
	(a) Altitude (b) Hyprotenuse (c) Median (d) None of these					
(xviii)	The value of sec 30 is					
	10 10 10 10 10 10 10 10 10 10 10 10 10 1					
	(a) $\frac{2}{3}$ (b) $\sqrt{2}$ (c)2 (d) $\frac{1}{3}$					
	4					
N-4	Section-B					
	Solve any TEN of the following questions. Each question carries 05 marks.					
Q.2	DEFINE SECTION OF THE PROPERTY					
Q.3	If $a - b = 5$ and $a + b = -9$, find the value of $a + b$.					
Q.4	Find the solution set of any one for the following equations.					
	(a) $2x(4x-1)=15$ (b) $-6+5x-3 =3$					
Q.5	Write the advantages and disadvaentages of Arithmetic Mean.					
	[30x ¹ / ₂ 8 1 ²					
Q.6	Simplify: (i) $\left[\frac{30x\ddot{y}^8}{5x\dot{v}^2}\right]^2$ (ii) $\frac{\sqrt[3]{2}}{\sqrt[9]{2}}$					
2.5	I oxy I ₩d					
Q.7	Prove that: $tar\theta + cot\theta = sec\theta cosec\theta$					
7.4	10 [
Q.8	Simplify with the help of logarithm: $\frac{(780.6)^{1/2} \times \sqrt{3.000}}{4.000}$					
	4000					
Q.9	Eliminate "x" from the equations: $3x + 4y = 22$, $-4x + 5y = 43$					
Q.10	Simplify: $\frac{x^2(y-z)}{(x+y)(x+z)} - \frac{y^2(z-x)}{(y+z)(y+x)} + \frac{z^2(x-y)}{(z+x)(x+y)}$					
Q.11	Solve: $\frac{\sqrt{x+10} - \sqrt{x-10}}{\sqrt{x+10} + \sqrt{x-10}} = \frac{1}{5}$					
Q.11	$\sqrt{x+10} + \sqrt{x-10} = \frac{1}{5}$					
Q.12	273.2 PG 1977 NA 4937 NA 1987 - NO CA SK 9507 N NO 1989 - NO C 1987 N					
	Prove that, if two lines intersect, the vertically opposite angle so formed are					
congru	Prove that if line drawn from the centre of a circle to hiscet a chaord is perpendicular					
	E LIVE I DEL TUDE DESMULTO DI DE PENTE NES CIFCIE IN NISCOT S PRONTA LE NEMENAIMINI DE					

to the chord.

Q.14 Prove that, the sum of the meausres of anglesof a quadrilateral is 360o.

Define any TWO of the following terms and draw the figures. Q.15 Acute angle Corresponding angles Escribed circle of a triangle

Section-C

Note: Solve any TWO of the following questions.

Factorize an Five of the following. Q.16

(i)
$$4(x+2y)2-9(x-y)^2$$

(ii) a2x4-20ax2y2-96y4

(iv) 24x2-81x+27

(v)
$$a3-2+\frac{1}{a^3}$$

(v)
$$a3-2+\frac{1}{a^3}$$
 (vi) ax^2+ay^2
(vii) $a^4(b^2-c^2)+b^4(c^2-a^2)+c^4(a^2-b^2)$

Derive with the help of right angle triangle: Q.17

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