			Time: 2 Hrs									
			Marks: 40									
			Subject - Algebra									
Creating	a Knowledge Lit World			Std: 10th	SSC.		Set: –]	I				
	www.mikci.org											
				Instruc	tion							
			i) All c	questions ar	e compulsory	7.						
	ii) Use of calculator is not allowed.											
Q.1A	Solve Any I	Four of the f	following					[4]				
1)	If $\frac{a}{b} = \frac{7}{2}$, then	$a + b = \frac{a + b}{a - b}$.										
2)	If $(9\sqrt{3} + 8\sqrt{5}) - (4\sqrt{5} - 3\sqrt{3}) = a\sqrt{3} + b\sqrt{5}$, then find a and b.											
3)	Mr. Kulkarni is 36 years old. His taxable income is Rs. 3,27,000. Will he have to pay income											
	tax?											
4)	Find the median of the given observations.											
5)	59, 75, 68, 70, 74, 75, 80. Write the following set in roster form: Set of even numbers											
5) 6)	For the poly	nomial my ²	-2x + 3 if n	$(-1) \equiv 7$ the	numbers.							
O.1B	Solve Anv	FWO of the	following:	(1) = 7, und				[4]				
1)	If $A = \{a, b,\}$	c, d, e}. B =	{c, d, e, f}. C =	$= \{b, d\}, D =$	{a, e}, then wl	hich of the following	g statements					
/	are true and	which are fa	lse?	(-,- <u>,</u> , -	< / - J, ••• •••		,					
	i) A ⊆ D	ii) C ⊆ A									
2)	Write the e	quations in	two variable	s required t	o solve the fo	llowing problem.						
	The price of	3 chairs and	12 tables is R	s. 4500 and j	price of 5 chai	rs and 3 tables is Rs	. 7000, then					
3)	The mean of	e of 2 chairs	and 2 tables. $r_{\rm s}$ is 50 out of	f which mee	n of 1 number	rs is 16 find the 5 th .	umber					
0.2A	Choose the	correct alte	rnative:			$13 13 \pm 0$, $1110 \text{ und } 3 \text{ I}$		[4]				
1)	The NAV of	f a unit in m	utual fund sch	eme is Rs. 1	0.65, then find	d the amount require	ed to buv	r • 1				
-/	500 such un	its.			,	require						
	A) 5325	В) 5235	C) 532	2500	D) 53250						
2)	If α and β and	the roots of	of the quadrati	ic equation x	$^{2} - 3x - 2 =$	= 0, then $\frac{1}{\alpha} + \frac{1}{\rho} =$						
	$(A) \frac{3}{2}$	$B) \frac{-3}{-3}$	$(1)^{\frac{13}{13}}$		D) $\frac{-13}{-13}$	α β						
3)	$\frac{\pi}{2}$	$\frac{D}{2}$	$\frac{C}{2}$	whose first t	$\frac{D}{2}$	common difference	ia 2					
5)	$A = 2 \cap 2$	4 R) -	г. ане, V -2. 48. 16	whose first to C	-2 -4 -6 -	-8 D) -2 -	-4 -8 -16					
4)	Cumulative	frequencies	in a grouped f	frequency tal	ble are useful	to find						
/	A) Mean	B) 1	Median	C) N	Iode	D) All of these						
Q.2B	Solve Any 7	FWO of the	following					[4]				
1)	'M/s. Real P	aint' sold 2	tons of luster	paint and tax	kable value of	each tin is Rs. 2800	. If the rate					
	of GST is 28	3%, then find	the amount of	of CGST and	I SGST charge	ed in the tax invoice						
2)	Find the sun	n ot all odd i	numbers from	1 to 150.	ffanoraalis	than find C 1 1-	on fird C					
5) 03	11 10r an A.F	r. the first ter	the following	e common d g activities:	interence is 6 i	then find S_n and hen	ce nna S_{10} .	[4]				
2.5A 1)	Complete th	e following	table to draw	graph of the	equations			[4]				
1)	2x - 3v = 4	e ronowing	3v - x =	4	equations.							
	X		-1	5								
	y	0										
	(x , y)											
				1_								
	X	2	0	5								
	У		0									



students										

Q.6 Solve Any ONE of the following

1) A farmer borrowed Rs. 60,000 and agreed to repay with interest in a year in twelve monthly installments. The first instalment was Rs. 12,000. The next each instalment was less than the preceeding one by Rs. 1000. Find the total amount he paid in the whole year. What was the interest changed? Find the rate of interest changed per annum.

2) Product of Pragati's age 2 years ago and 3 years hence is 84. Find her present age.

*This question paper is for practice purpose only.

[3]