## CLASS: X SUB: MATHEMATICS TIME: 30 MIN **CHAPTER 3: PAIR OF LINEAR EQUATIONS IN TWO** VARIABLES

NAME :	:		SEC_	ROLL	NO	
		SECTIC	ON – A (MCQ	2 – 1 MARK EAC	CH)	
Q.1	The pair of linear equations $2\chi = 5y+6$ and $15y=6\chi$ -8 represents two lines which are					
	(a)Interse	cting	(b)Pa	arallel		
	(c)coincide	ent	(d)ei	ther Intersecting	g or Parallel	
Q.2	If the pair of linear equations $x-y=1$ , $x+ky=5$ has a unique solution					
	x=2, $y=1$ then the value of k is					
	(a)-2	(b)-3	(c)3	3 (d	) 4	
Q.3	The pair o a solution	f linear equa	tions $3\chi + 5\gamma$	$y = 3$ and $6\chi + k$	xy = 8 do not have	
	(a) = 5	(b) =	= 10	(c) ≠10	(d) ≠ 5	
Q.4	If the system of equations					
	3x + y = 1 and $(2k-1)x + (k-1)y = 2k+1$ is inconsistent, then k is					
	(a) -1	(b) 0	(c) 1	(d) 2		
Q.5	The pair of the equations $x = a$ as well as $y = b$ graphically shows lines that are					
	(a) paralle	٤l	(b) inters	ecting at (b, a)		
	(c) coincid	lent	(d) inters	ecting at (a, b)		
SE	ECTION - I	B (2 MARKS	EACH)			

Q.6	Find the solutions of the pair of linear equations $5x + 10y - 50 = 0$ and $x + 8y = 10$ , hence find the value of m if $y = mx + 5$ .
Q.7	₹ 2450 were divided among 65 children. If each girl gets ₹ 50 and each boy gets ₹ 30 then find the number of girls.

	SECTION – C (3 MARKS EACH)
Q.8	4 chairs and 3 tables cost ₹ 2100 and 5 chairs and 2 tables cost ₹ 1750. Find the cost of one chair and one table separately.
Q.9	Find the value of k for which the equations
	$3_{\chi} + y = 1$ and $(2k - 1)_{\chi} + (k - 1)_{\chi} = 2k + 1$ has no solution.

	SECTION – D (4 MARKS EACH)
Q.10	Two schools <i>P</i> and <i>Q</i> decided to award prizes to their students for two games of Hockey $\gtrless x$ per student and cricket $\gtrless y$ per student. School P decided to award a total of $\gtrless$ 9500 for two games to 5 and 4 students respectively; while school Q decided to award $\gtrless$ 7370 for the two games to 4 and 3 students respectively.
	Based on the above information answer the following questions:
	i) Represent the above information algebraically (in terms of
	x and y) ii) What is the prize amount for hockey? iii) Prize
	amount on which game is more and by how much?
	iv) What will be the total prize amount if there are 2 students each from two games?

Rough Work