BCM SCHOOL, BASANT AVENUE, DUGRI, LUDHIANA. **APRIL ASSIGNEMENT**

CLASS- X (MATHEMATICS) TOPICS: PAIR OF LINEAR EQUATIONS IN TWO VARIABLES &

	Ql	JADRATIC EQUATION	ONS.			
	SEC ⁻	TION -A (MULTIPLE	CHOICE QUES	TIONS)		
1.	The values of k for winfinitely many solution	hich the pair of linea			= 1 have	
	(a) ±1	(b) 1	(c) -1	(d) 2		
2.	The roots of quadrat (a) ± 0.2	ic equation $x^2 - 0.00$ (b) ± 0.02	$4 = 0 \ are:$ (c) 0.4	(d) 2		
3.	If the equation $(k + 3)$ (a) 1,3	(b) 0,1	(c) 0,3	(d) 0, 3/4	is/are:	
		SECTION – B(2 MA				
4.	There are some students in the two examination halls A and B. To make the number of students equal in each hall, 10 students are sent from A to B but, if 20 students are sent from B to A, the number of students in A becomes double the number of students in B, then find the number of students in the both halls.					
5.		f Zeba were younger by 5 years than what she really is, then the square of her age (in rears) would have been 11 more than five times her actual age. What is her age now?				
		SECTION - C (3 MA	RKS QUESTION	IS)		
6.	If the roots of the equation $(a - b)x^2 + (b - c)x + (c - a) = 0$ are equal, prove that $2a = b+c$.					
7.	The ratio of incomes of two persons is 9:7 and the ratio of their expenditures is 4:3. If each of them manages to save rupees 2000 per month, find their monthly income.					
		SECTION - D (5 MA	RKS QUESTION	IS)		
8.	In a fight of 600km, an aircraft was slowed down due to bad weather. Its average speed for the trip was reduced by 200 km/hr and the time of flight increased by 30 minutes. Find the duration of flight.					
9.	A railway half ticket cost half the full fare but he reservation charges are the same on a half ticket as on a full ticket. One reserved first class ticket from the stations A to B costs Rs. 2530. Also, one reserved first class ticket and one reserved first class half ticket from stations A to B costs Rs. 3810. Find the full first class fare from stations A to B and also the reservation charges for a ticket.					
		SECTION - E (-			
10.	Divit has a field with total area of 1260 m ² . He uses this field to grow wheat and rice. The land used to grow wheat i.e. wheat land is rectangular in shape while the rice land is in the shape of a square. Length of wheat land is found to be more than twice the length of the rice land.					
	RICE LAND	w	HEAT LAND			

- Based on the above information, answer the following questions:

 (i) If the length of the rice land is x metre, find the total length of the field?

 (ii) Find the perimeter (in meteres) of the whole field?

 - Find value of x? (iii)
 - What is the ratio of area of wheat land to rice land? (iv)