BCM SCHOOL, BASANT AVENUE, DUGRI, LUDHIANA.	
CLASS-Y (MATHEMATICS)	
TOPICS: PAIR OF LINEAR EQUATIONS IN TWO VARIABLES &	
QUADRATIC EQUATIONS.	
1.	В
2.	A
3.	C
4.	Let the number of students in halls A and B are x and y respectively
	Now, by given condition $x - 10 = y + 10$
	\Rightarrow x - y = 20
	and $(x + 20) = 2(y - 20)$
	\Rightarrow x - 2y = - 60
_	On solving: $x = 100$ and $y = 80$.
5.	Present age of Zeba is 14 years.
6.	By taking $D = 0$ and then by using the algebraic identity
	$(a + b + c)^{2} = a^{2} + b^{2} + c^{2} + 2ab + 2bc + 2ca.$
7.	Let income of two persons be x and y respectively
	Equation 1. 7x- $9y = 0$
	Equation 2.5x – 4y = -2000 On solving: $x = 18000$ and $y = 14000$
8	Let the original speed of the aircraft be $x \text{ km/hr}$
0.	then new speed = $(x-200)$ km hr
	Duration of flight at original speed = $600/x$ hr
	Duration of fight at reduced speed =600/ (x-200)hr
	$\therefore \frac{600}{100} - \frac{600}{100} = \frac{1}{100}$
	x = x - 200 = 2
	On solving: $x = 600$ km/h.
9	Let the cost of full and half first class fare be Rs. x and Rs. x2 respectively and
0.	reservation I charges be Rs. Y per ticket.
	Case1: The cost of one reserved first class ticket from the stations A to B = Rs 2530
	\Rightarrow x + y = 2530
	Case 2: The cost of one reserved first class ticket and one reserved first class half
	ticket from stations A to B = Rs. 3810
	\Rightarrow x+y+ x/2 +y=3810
	On solving, x = 2500, y = 30.
10.	(i) 3x+ 3 m
	(ii) 8x+6 m
	(iii) $X = 20$
	(iv) 43:20