CLASS/ C-VII   **SUBJECT: MATHS**
TIME: 1 hrs.   **MAX MARKS: /50**

NAME: _____

Q.No	1	2	3	4	5	6	Total
Marks	10	10	10	10	10	10	50
Obt Marks							

NOTE: Attempt any five questions.

Q.1: Given that a=6 ,b=-5 and c=6, evaluate each of the expressions.   (5+5=10)

a) $\frac{b+c}{a} + \frac{a+c}{b}$ b) $\frac{a+b+2c}{3c-a-b} - \frac{5c}{4b}$

Q.2:a) Solve: $10x - \frac{5x+4}{3} = \frac{1}{4}$ (5+5=10)

b) Amirah is 4 years older than Priya and Shirley is 2 years younger than Priya. If the sum of their ages is 47, find their respective ages.

Q.3: The numbers in a family of chemical compounds are made up of carbon atoms and hydrogen atoms.

i) The number of carbon atoms and hydrogen atoms of the first four members in the family are given in the table. Complete the table.   (3)

Member Number	Number of carbon atom	Number of hydrogen atom
1	1	4
2	2	6
3	3	8
4	4	10
5		12
6		14
:	:	:
n		

ii) If a member of the family has 30 carbon atoms, how many hydrogen atoms does it have?   (4)
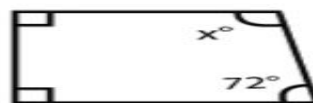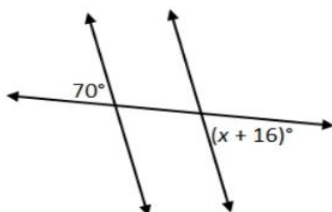
iii) If a member of the family has 52 hydrogen atoms, how many carbon atoms does it have?   (4)

Q.4: a) The result of a number when decreased by 20% is 192. Find the number.   (5+5=10)

b) A train left a station at 8.35 a.m. and arrived at its destination at 3.12 p.m. How long did the journey take?

Q.5: Find unknown in the following figures.   (10)

x = _____

Q.6: . A village loses 14% of its goats in a flood and 6% of the remainder die from diseases. Given that the number of goats left is 8084, find the original number of goats in the village.   (10)