KENDRIYA VIDYALAYA SANGATHAN ,REGIONAL OFFICE, LUCKNOW
MID TERM EXAMINATION 2023-24

SUBJECT : MATHEMATICS   **MAX. MARKS : 60**
CLASS: VII   **TIME: 2 Hr.30 Min**

Marking Scheme

Q.No.	Section A	marks
1	d	1
2	b	1
3	c	1
4	b	1
5	b	1
6	b	1
7	b	1
8	a	1
9	a	1
10	c	1
11	c	1
12	c	1
13	d	1
14	a	1
15	b	1

Section : B

16	Percentage of voters who didn't vote = 40% No. of voters who didn't vote =6000 Or Profit = Rs. 2000 S.P of TV = Rs. 12000	1 1 1 1
17	Fall in temperature in 6 minutes =4^0 C $\times$ 6= 24^0 C (-24) Final temperature of room = 45^0 C - 24^0 C =21^0 C	1 1
18	$\frac{12}{5} \times \frac{5}{3} = 4$ or $\frac{25}{7} \times \frac{3}{5} = \frac{15}{7}$	1+1 1+1
19	Let Raju's present age be x His father's age = 3x + 5 Equation (3x+5=44)	0.5 0.5 1
20	x + 2x = 180^0 x = 60^0	1 1

SECTION : C

21	Students who like English = 8 Students who like Mathematics = 16 Fraction of students who like Science = $\frac{2}{5}$	1 1 1
22	(i)Team B (ii)fourth over (iii) Third over	1 1 1
23	Let Parmit have x marbles Irfan has 5x + 7 marbles 5x + 7 = 37 5x = 30 x = 6	0.5 1 0.5 0.5 0.5

	Or	
	(i)10p = 90	1
	p= 9	0.5
	(ii)2q = 6	1
	q = 3	0.5
24	Checking the sum of 2 sides (all 3 pairs) of the triangle is greater than the 3rd side,	2
	Triangle is possible	1
	Or	
	6+8 =14 and 8-6 = 2	1+1
	3rd side will lie between 2cm and 14cm.	1
25	$I = \frac{PRT}{100}$	0.5
	$= \frac{3500 \times 7 \times 2}{100}$	0.5
	= Rs. 490	1
	A = P + I = 3500 + 490 = Rs.3990	1

SECTION : D

26	(i) Difference = 8 - (-14) =22	1
	(ii) E = (-6) , K = 6	1
	(iii) -12 (B)	1
	(iv) -8	1
	Or	
	1mark for each correct answer	1× 4
27	(a)Mean $= \frac{840}{7} = 120$	1
	(b) 5 days	1
	(c) arranging data in increasing order and finding median = 106	1
	(d)Thursday and Sunday	1
28	$(a) \angle 4 = 110^0$	1
	(b) Alternate interior angles	1
	(c) $\angle 2$	1
	(d) 180^0	1
29	(a)120^0 + y =180^0 (linear pair)	
	y = 60^0	1
	x + 50^0= 120^0 (exterior angle property of triangle)	
	x = 70^0	1
	(b) x + x + 50^0 = 180^0	0.5
	2x + 50^0 = 180^0	0.5
	2x =130^0	0.5
	x = 65^0	0.5
30	(i)Number of children liked playing football = 25% of 40 = 10	1
	Number of children who didn't like playing football = 30	1
	(ii)12% of x = 1080	1
	x = 9000	1
	or	
	(i) Let C.P of toy car = Rs x	0.5
	S.P = x + 20% of x = 540	1
	$=> \frac{6x}{5} = 540$	1
	=> x = 450	0.5
	(ii) 0.40 (decimal), $\frac{2}{5}$ (fraction)	1