

KENDRIYA VIDYALAYA SANGATHAN, LUCKNOW REGION

SESSION ENDING EXAMINATION 2022-23

CLASS – VII

SUBJECT – MATHEMATICS

MARKING SCHEME

1	(B) $5 + 3mn$	1
2	(C) 3 liters	1
3	(A) Corresponding angles	1
4	(C) 8 sq.cm	1
5	(D) - 6	1
6	(A) 7, - 5	1
7	(B) 3	1
8	(D) $-3/2$	1
9	(B) 8	1
10	(A) 7^3	1
11	(C) 90°	1
12	(C) 9	1
13	(D) 8	1
14	(A) Triangle	1
15	(B) 5 m	1
16	$\frac{6}{7} \times \frac{7}{3} = 2$	2
	Or 0.0350	2
17	The distance between Saturn and Uranus is greater = 1,439,000,000,000 m. Standard form $1,439,000,000,000 \text{ m} = 1.439 \times 10^{12} \text{ m}$.	1 1
18	(i) Yes, the two parts coincide with each other.	1
	(ii) I and H	1
19	The area of the flower bed = $\frac{22}{7} \times 14 \times 14 = 616 \text{ sq. m}$. Fertilizer required for 616 square metre area = $616 \times 1/10 = 61.6 \text{ kg}$	1 1
20	$2.7 \times 10^{12} = 270 \times 10^{10}$ So 2.7×10^{12} is greater than 3.5×10^{10} . OR (i) $5^2 \times 7^3$ (ii) $a^3 c^4 d$	1 1 1 1
21	No. of students like cricket=16 No. of students like football=24	1.5 1.5
22	For correct sketch OR For correct sketch	3
23	(a) 3 (b) 4 (c) 6 OR For correct figures	1 1 1 3
24	1. Total length of ribbon = $18\frac{3}{4} \times 4 = 75 \text{ m}$ 2. Perimeter of one display board = $2 (3+2) = 10 \text{ m}$	1 2

	Perimeter of 5 display boards = 50 m Length of remaining ribbon = $75 - 50 = 25$ m	
25	(i) (B) $500 - 10t$ (ii) Rs200	1 2
26	a) 30° b) 30°	2 2
27	Area of triangle ABC = $\frac{1}{2} \times 5 \times 12 = 30$ sq. cm And $\frac{1}{2} \times AD \times BC = 30$ $AD = 60 \div 13 = 4 \frac{8}{13}$ cm OR Perimeter of circular table cover = $2 \times 3.14 \times 0.75 = 4.71$ m Cost of lace = $4.71 \times 15 = \text{Rs}70.65$	2 1 1 2 2
28	i) $\frac{-2}{5} \times \frac{-5}{2} = 1$ (ii) $\frac{23}{63}$	2 2
29	(i) $108 \times 192 = 2^2 \times 3^3 \times 2^6 \times 3 = 2^8 \times 3^4$ (ii) $729 \times 64 = 3^6 \times 2^6$	2 2
30	(i) 25 (ii) 19 OR $2(a^2 + ab) + 3 - ab = 2a^2 + ab + 3$ When $a = 5$ and $b = -3$ $2(5^2) + 5 \times (-3) + 3 = 38$	2 2 2 2