

OSDAV Public School, Kaithal November Exam (2024-25) Class: VII Subject: Maths

SET-A

M.M.: 30

Time:	1	hr	20	min.
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Ger	neral Instructions:- All questions are compulsory.		
Q.No.	Questions	Marks	
	Section -A		
1)	$\frac{2}{5}$ of a number 25 is	1	
	(a) 25 (b) 10. (c) 35. (d) 7		
2)	The H.C.F of 16x ² y and 4xy ² z is	1	
	(a) $16xy$ (b) 4^2y (c) $4xy$ (d) $16x^2yz$		
3)	How many lines of symmetry of an isosceles triangle has?	1	
	(a) 3 (b) 1. (c) 2. (d) 4		
4)	$-9x^2y^2z$ is a .	1	
	(a) Monomial (b) Binomial (c) Trinomial (d) Equation		
5)	Assertion: A cube has 6 square faces.	1	
	Reason: A cube is a 3-D shape with equal length, width and height.		
	(a) Both assertion and reason are correct and Reason is not the correct explanation for assertion.		
	assertion		
	(c) Assertion is true but reason is false.		
	(d) Both assertion and reason are false.		
	Section -B		
6)	If $4x-3=21$, find the value of $2x-5$.	2	
7)	Factories: $a^2+2bc+2ac+ab$	2	
8)	lines I and M are the lines of symmetry of the line segment XY and YZ respectively. If	2	
	XA=3.5 cm and YZ=6cm.find AY and YB.		
	+l + m		
	X A Y B Z		
9)	When 4 is added to eight times a number, we obtain 60. Find the number.	2	
10)	Eind the ans duct of $11_2(2b^2)^3$ a^2b^3 and then explore $a=1, b=1$	2	
,	r ind the product of $ra(2D - \frac{1}{11}aD)$ and then evaluate $a - 1, D - 1$	_	
	Section -C		
11)	Draw a Tetrahedron. How many faces, Edges and vertices of a tetrahedron have and also	3	
12)	write the shape of its faces?	2	
12)	Solve it: $\frac{-3}{2} - \frac{3}{3} = \frac{5+\frac{-3}{3}}{3}$ and also check the answer.	3	
13)	(i) Draw a rectangle. Also draw the line of symmetry.	3	
	(ii) Write two English alphabets having two lines of symmetry.		
14	Find the product of $(3x^2+5xy-7)(x+5y)$ and verify the result if $x=2, y=-1$.	3	
15)	The length of a rectangle is 6 cm more than its breadth. If the perimeter is 48 cm. find the	3	
	dimensions of the rectangle.		



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SET-B

M.M.:30

Time: 1 hr 20 min.

Ger	neral Instructions:- All questions are compulsory.		
Q.No.	Questions	Marks	
	Section -A		
1)	A Circle has	1	
	(a) 3 lines of symmetry (b) 1 line of symmetry		
	(c) 2 lines of symmetry (d) Infinite many lines of symmetry		
2)	$9x^2y^2z + 3xy^2z$ is a.	1	
3)	(a) Monomial (b) Binomial (c) Irinomial (d) Equation $a + a + a + a = \dots$	1	
5)	(a) a^4 (b) $4a$ (c) a (d) $4a^4$		
4)	The H.C.F of $25xv^2$ and $15xv^2z$ is.	1	
,	(a) $5xy^2$ (b) $10x^2y$ (c) $5xyz$ (d) $10x^2yz$		
5)	Assertion: A Square pyramid has 5 faces.	1	
	Reason: A Square pyramid has one square base and 4 triangle faces.		
	(a) Both assertion and reason are correct and Reason is the correct explanation for	or	
	assertion.		
	(b) Both assertion and reason are correct and Reason is not the correct explanation	on	
	for assertion.		
	(c) Assertion is true but reason is false. (d) Both assertion and reason are false.		
	(u) Both assertion and reason are faise.		
6)	When 9 is subtracted from five times a number the result is 71. Find the number	2	
7)	Find the product of $(5x^2)$ $(12x^2y)$ $(\frac{3}{20}xy^2)$ and then evaluate x=1,y=2	2	
8)	If $4x-3=21$. Find the value of $2x-5$.	2	
9)	Factories: $x^2+3yz+3xz+xy$	2	
10)	.l .m	2	
	lines I and M are the lines of symmetry of the		
	line segment XY and YZ respectively.	_	
	If XA=2.5cmand YZ=4cm.find AY and BZ.	Z	
	Section -C		
11)	Find the product of $(3x^2+5xy-7)(x+5y)$ and verify the result if $x = 2, y = -1$.	3	
12)	(i) Draw a Square and draw its line of symmetry.	3	
	(ii) Write two letters of English alphabet having One lines of symmetry		
13)	Solve it: $2x - \frac{1}{3} = \frac{1}{5} - x$ and also check the answer.	3	
14)	The length of a rectangle is 10 cm more than its breadth. If the perimeter is 100 cm.Find		
	the dimensions of rectangle.		
15)	Draw a Cuboid .How many faces, edges and vertices of a cuboid have? What is the s	shape 3	
	of its faces?		



OSDAV Public School, Kaithal November Exam (2024-25) Class: VII Subject: Maths (Marking scheme)

SET-A

Q.No.	Questions	Marks
1)	(b) 10	1
2)	(c) 4xy	1
3)	(b) 1	1
4)	(a) Monomial	
5)	(a) Both assertion and reason are true and reason is the correct explanation of	1
	assertion.	
6)	4x = 21 + 3	1+1
	4x = 24	
	X=24/4	
	X=6	
	2x-5=2(6)-5	
	= 12-5	
	=7	
7)	$= a^2 + 2ac + 2bc + ab$	1 1/2
	= a(a+2c)+b(a+2c)	1/
	=(a+2c)(a+b)	1/2
0)		
8)	1) I is the line of symmetry of XY	1/ 111
	If. XA = 3.5 cm	$\frac{7}{2} \pm 1 \pm 1$
	(: dotted line is the line of symmetry)	72 (FUI rooson)
	2) m is the line of summetry of YZ	rcasonj
	Al VZ- L-	
	$\frac{J_{F}}{J_{hen}} \frac{1}{YB} = \frac{3}{B} \frac{1}{X} \frac{1}{X}$	
	YB = 3 cm. I	
	AY = 3.5 cm, YB = 3 cm	
9)	Let the number= x	1/2
	A.I.Q	1/
	8x+4=60	1/2
	$\delta X = 00-4$ $S_{\rm W} = 56$	1/
	$\frac{6X-50}{x-56/8}$	/2
	x = 50/8 x = 7	1/2
10)	$1)o(2b^2 - 3 o^2 b^3)$	72
10,		
	$= 22ab^2 - 3a^3b^3$	1+1
	Evaluate:	
	$22ab^2 - 3a^3b^3$	
	Puta = 1, b = -1 22(1) (-1) = 3(1)3(-1)3	
	=22(10-3(1)(-1))	
	= 22+3	
		1



14)	$\begin{array}{rcl} 141 & (3x^{2} + 5xy - 7)(x + 5y) \\ & 3x^{2}(x + 5y) + 5xy(x + 5y) - 7(x + 5y) \\ & = 3x^{3} + 15x^{2}y + 5x^{2}y + 25xy^{2} - 7x - 35y \\ & = 3x^{3} + 20x^{2}y + 25xy^{2} - 7x - 35y \\ & & & & & & & & & & & & \\ & & & & & $	· · · · · · · · · · · · · · · · · · ·
15)	Let the Breadth = χ cm Length = $\pi + 6$ cm Perimetes of rectangle = $2(l+b)$ A.T.O $2(\pi + 6 + \chi) = 48$ $2(2\pi + 6) = 48$ $4\pi + 12 = 48$ $4\pi + 12 = 48$ $4\pi = 36$ $\chi = 36$ $\chi = 36$ $\chi = 36$ $\chi = 36$ $\chi = 9$ Breadth = 9 cm Length = 9 + 6 = 15 cm.	1 1 ½ ½



OSDAV Public School, Kaithal November Exam (2024-25) Class: VII Subject: Maths (Marking scheme)

SET-B

Q.No.	Questions	Marks
1)	(d) Infinite many lines of symmetry	1
2)	(b) Binomial	1
3)	(b) 4a	1
4)	(a) 5xy ²	
5)	(a) Both assertion and reason are true and reason is the correct explanation of	1
	assertion.	
6)	Let the number= x	1/2
	A.T.Q	
	5x-9=71	1/2
	5x = 71 + 9	
	5x=80	1/2
	x = 80/5	1/
	X = 10 So the number = 16	72
7)	So, the humber-10	
<i>'</i> '	$= (5 \times 12 \times 3) (x^2 \times x^2 \times x) (y \times y^2)$	1
		1
	Evaluate	
	$9x^{5}y^{3} = 9(1)^{5}(2)^{3}$	
	= 9 (1) (8)	
	= 71	1
8)	4x = 21 + 3	1
	4x=24	
	x=24/4=6	
	2x-5=2(6)-5	
	= 12-5	1
0)	- /	
)	$x^{2} + 3u_{3} + 3x_{3} + x_{4}$	
	$\pm x^{2} + xu + 3u_{3} + 3x_{3}$	1 1/2
	0 08 0	- / -
	$= X(x+y) + 3_{3}(x+y)$	
	$=(x+y)(x+3z) \rightarrow$	1/2
10)	a) AY	1/ . 1 .
	l is the line of symmetry XY	$\frac{1}{2} + 1 + 1$
	AY = 2.5 cm	⁷ 2 (FOr
	(Dotted line is the line of symmetry)	reason)
	BZ The the time of Automation VZ	
	YZ = 4 cm	
	BZ z B 2 cm	
	+ the sure is the sine of Symmetry)	

11) 1+1+1 14) (3x2+ 5xy-7) (x+ 5y) 3x2 (x+5y)+ 5xy(x+5y)-7(x+5y) $= \frac{3\pi^{3}+15\pi^{2}y+5\pi^{2}y+5\pi^{2}y+25\pi^{2}y^{2}-7\pi^{2}-35y}{2}$ $= \frac{7\pi^{3}+20\pi^{2}y+25\pi^{2}y^{2}-7\pi-35y}{2}$ $= \frac{7}{2}$ RHS LHS (3×23) + (20×2×-1)+ (3x2+ 5x2x-1-7) (25×2×-12) -(7×2) (2+5X-1) 3×4+(-10)-7] 2+(-5) - (35X-1) 24+(80)+50-14 (2-10-7) (2-5) = (12-17)(2-5) - (-35) = (-5)×(-3) 24-80+50-14+ - 15 35 109-94 LHS = RHS 15 HENCE VELified ! 12) 8 10 2+1 Square has 4 lines of symmetry T D 11 line = A, B, C, D 1 of symmetry 13) Q=137 2X-1 2x+x= 1+1 3× 3+5 -8 3x 1 1/2+ × 8×3 - $1\frac{1}{2}$ Put 845 X= in eq. 2.HP.S Ritp. S 8 5 46 9 - 8 45 45 40 45 1. H.S = R.H.S 1000000000 0

