SAINIK SCHOOL BIJAPUR

CLASS VIII

TERM-1 EXAMINATION

MAX. MARKS:40

DATE:20/11/2021

MATHEMATICS

TIME DURATION: 1 1/2 Hrs

<u>SET-1</u>

Send Answer Sheet (a single pdf) to maths8abc2122@gmail.com

1 The standard form of a linear equation in one variable x is

b) $ax^2 + bx + c = 0$ ax + b = 0a) $ax^3 + bx^2 + cx + d = 0$ d) $ax^4 + bx^3 + cx^2 + dx + e = 0$ C) 2 The degree of the equation $x^2 - 2x + 1 = x^2 - 3$ is a) 1 b) 2 0 c) d) 3 If 9 is added to a number, it becomes 25. This statement in the form of an equation is 3 x + 9 = 25x - 9 = 25a) b) 9x = 25c) $\frac{x}{0} = 25$ d) What is the number of vertices of a quadrilateral? 4 b) 4 a) 1 3 c) d) 5 5 How many diagonals does a regular hexagon have ? 2 b) 0 a) c) 4 d) 9 The angle sum of a convex polygon with number of sides n is 6

a) (n - 2) 180° b) (2n - 4) 180°

 c)
 (n + 2) 180°

 d)
 (2n + 4) 180°.

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Two adjacent angles of a quadrilateral measure 130° and 40°. The sum of the remaining two angles is

a)	190°	b)	180°
c)	360°	d)	90°.

⁸ How many sides does a-regular polygon have if each of its interior angles is 165°?

c) 9 d) 6	ć	a)	12	b)	24
	C	c)	9	d)	6

an

9	Whi	Which of the following statement is false ?						
	a)	All the angles of a rectangle are equal	b)	No angle of a rectangle can be obtuse				
*	c)	The diagonals of a rectangle bisect each other	d)	The opposite sides of a rectangle are not equal.				
10	One angle of a parallelogram is a right angle. The name of the quadrilateral is							
	a)	square	b)	rhombus				
	C)	rectangle	d)	kite.				
11	Wha	What is the appropriate condition to construct a quadrilateral?						
	a)	When four sides and one diagonal are given	b)	When three sides and one diagonal are given				
	c)	When two sides and one diagonal are given	d)	None of the above				
12	Toc	onstruct a quadrilateral, we need to know two a	adjad	cent side and angles.				
	a)	One	b)	Тwo				
	c)	Three	d)	All four angles				
13	If tw	o diagonals are given, then we can construct a						
(e.)	a)	Rhombus	b)	Rectangle				
	c)	Kite	d)	Parallelogram				
14	All th	ne sides of a regular polygon are:						
	a)	Equal in length	b)	Unequal in length				
	c)	Parallel to each other	d)	None of these				
15	The	The perfect square number out of 2, 3, 4 and 5 is						
	a)	2	b)	3				
	c)	4	d)	5				
16 Which of 105 ² , 216 ² , 333 ² and 111 ² would end with digit 1?								
	a)	105 ²	b)	333 ²				
	c)	216 ²	d)	111 ²				
17	How	many non-square numbers lie between the pair of	num	bers 80 ² and 81 ² ?				
•	a)	162	b)	160				
	c)	161	d)	164				
18	Expr	Express the square number 5 ² as the sum of two consecutive integers.						
	a)	12 + 13	b)	10 + 15				
	C)	9 + 16	d)	20 + 5				
19	Expr	ess 9 ² as the sum of two consecutive integers	·	· · · · · · · · · · · · · · · · · · ·				
	a)	40 + 41	b)	50 + 31				

1							
	c)	36 + 45	d)	72 + 9			
20	What could be the possible one's digit of the square root of 576 ?						
	a)	4, 6	b)	5.7			
	c)	1, 8	d)	2, 9			
21	The	smallest number by which 125 should be divided so	ast	to get a perfect square is			
	a)	3	b)	5			
	Í		,				
	c)	25	d)	125			
22	The	smallest 3-digit perfect square is		L			
	a)	999	b)	100			
	c)	961	d)	125			
23	The	cube of an even natural number is					
ana an 1979, 19	a)	even	b)	odd			
				•			
	c)	may be even, may be odd	d)	prime number.			
24	The	one's digit of the cube of the number 111 is					
	a)	1	b)	2			
	C)	3	d)	9			
25	Wha	t is the one's digit in the cube root of the cube numb	ber 1	331 ?			
	a)	1	b)	2			
	c)	3	d)	4			
26	The	number of zeroes at the end of the cube root of the	cube	e number 8000000 is			
	a)	1	b)	2			
	C)	3	d)	6			
		·					
27	Find the smallest number by which the number 250 must be divided to obtain a perfect cube.						
	a)	2	b)	3			
	(C)	4	a)	5			
28	The v	A cm	5 b)	8 cm			
	a)	4 011	D)	o chi			
		16 am	d)	6 om			
	C)		a)	o cm			
30	The	$\frac{1}{1}$					
29		one variable	b)	two variables			
	a)		5)				
	c)	no variable	d)	None of these			
	-/		-,				
30	The	value of $x^2 - 2x + 1$ when $x = 1$ is					
	a)	1	b)	2			
	, <i>"</i> ,	•	,	_			

r		0			
	c)	-2	d)	0,	
31	31 Which of the following is a binomial 2				
	a	3xv			
	(u)		(d	4I + 5m	
	c)	2x + 3y - 5	d)	4a – 7ab + 3b + 12.	
22	The				
52	The	suff of $x^2 - y^2$, $y^2 - z^2$ and $z^2 - x^2$ is			
	a)	0	b)	3x ²	
	c)	3y ²	(h)	372	
			",	02	
33	The	volume of a cuboid of dimensions a, b, c is			
	a)	abc	(b)	$a^{2}h^{2}c^{2}$	
	c)	a³b³c³	(b	none of these	
34	The	product of x^2 , $-x^3$, $-x^4$ is			
	a)	X ₉	(h)	X ⁵	
	c)	X ⁷	(b	X ₆	
			⁽¹⁾		
35	(a –	b) ² is equal to			
	a)	$a^2 + b^2 - 2ab$	b)	$a^2 + b^2 + 2ab$	
			0)		
	c)	$a^2 + b^2$	(b	2ab	
			, ,		
36	An a	lgebraic expression that contains only one term is a		4.	
	a)	Monomial	b)	Pinomial	
			0)	Binomia	
	c)	Trinomial		Name of the set	
*	•		(a)	None of the above	
37	lfwe	add $7xy + 5yz - 3zx 4yz + 9zx 4y and 2yz + 5yz$			
01	2)	$\frac{444}{5}$, $\frac{7}{5}$, $\frac{7}{5}$, $\frac{5}{2}$ = $\frac{5}{2}$, $\frac{4}{2}$ = $\frac{9}{2}$ = $\frac{4}{2}$ and $\frac{-3}{2}$ = $\frac{5}{5}$	(-2)	xy, then the answer is:	
	a)	3xy + 3yz + 3zx + 3x - 4y	b)	5xy - 9yz + 3zx - 5x - 4y	
	c)	5xy + 10yz + 3zx + 15x – 4y	d)	5xy + 10yz + 3zx + 5y - 6y	
		· · ·	, <i>"</i> ,		
38 The common factor 12y and 30 is					
[a)	6	b)	12	
			0)	12	
[c)	30	d)	64	
			ч)	Sy .	
39 ⁻	The c	common factor of 14a ² b and 35a ⁴ b ² is			
Γ	a)	a4b ²	b)	35a4b2	
	~		0)	55a*D*	
f	c)	14a²b	d)	72 ² h	
	-,		u)	<i>ι</i> α <i>μ</i> .	
40 The factorisation $1 + 16x + 64x^2$ is					
. Γ	a)	(1 - 8x) ²	k)	$(4 + 0)^{2}$	
	a)		(a	$(1 + \delta X)^2$	
F	c)	$(8 - x)^2$	d)	$(9 + y)^2$	
*	-/		u)	(0 + X) ⁻	