BK BIRLA CENTRE FOR DUCATION

SARALA BIRLA GROUP OF SCHOOLS SENIOR SECONDARY CO-ED DAY CUM BOYS' RESIDENTIAL SCHOOL





तेजनिव	
नावधातमन्तुः	
BIRLA CENTRE	
R EDUCATION	
a Birla Group of Schools)	

B K FC

MATHEMATICS

Class Date Admis	: VIII : 06-12-2024 sion No.:			Duration : 1 Hr Max. Marks : 25 Roll No.:		
<u>Genera</u>	al Instructions:					
1.	1. All Questions are compulsory.					
2.	There are 13 qu	estions.				
I.	CHOOSE THE CORRECT ALTERNATIVE IN THE FOLLOWING. 5					
1.	1. The digit at units place of the cube of 129 is :					
	a) 1	b) 8	c) 7	d) 9		
2.	The value of $\sqrt[3]{8}$	$3x\sqrt[3]{64}$ is :				
	a) 2	b) 4	c) 8	d) 16		
3.	3. Which of the following is the perfect cube ?					
	a) 405	b) 147	c) 343	d) 75		
4.	Product of 15 $x^2 y$ and – 4 x is :					
	a) 15 x ³ y	b) -60 x ² y	c) -60 x ³ y	d) -60 $x^{3} y^{2}$		
5.	. The value of $x^{2} - 2x + 1$ when $x = 1$ is :					
	a) 1	b) 2	c) -2	d) 0		
١١.	II. SOLVE THE FOLLOWING					
6.	Show that 256 is not a perfect cube.					
7.	• Find the smallest number by which 392 to be multiplied so that product is perfect					
	cube .					
8.	Add : i) $ab - bc$, $bc - ca$ and $ca - ab$					
	ii) $2 p^2 q^2 - 3 p q + 4$, $5 + 7 p q - 3 p^2 q^2$ 2					
9.	Simplify : $3x(4x-5) + 3$ and find its value for $x = 3$					
10	10. Find the cube root by prime factorisation method : 10648					
11	Find the smalle	st number by which	704 to be divided to a	obtain a perfect cube 3		
12	12 Simplify: $(a + b)(c - d) + (a - b)(c + d) + 2(ac + b d)$					
13	13. Find the product of : i) $(2x + 5)(4x - 3)$					

ii) (x + 7y)(7x - y) 3

CL_8_PERIODIC TEST- 2_MATH_QP_1/1