KENDRIYA VIDYALAYA SANGTHAN LUCKNOW REGION SESSION ENDING RE-EXAM 2023-24 CLASS -VIII SUBJECT -MATHEMATICS

MAXIMUM MARKS :60 Time Allowed :2.30 hours

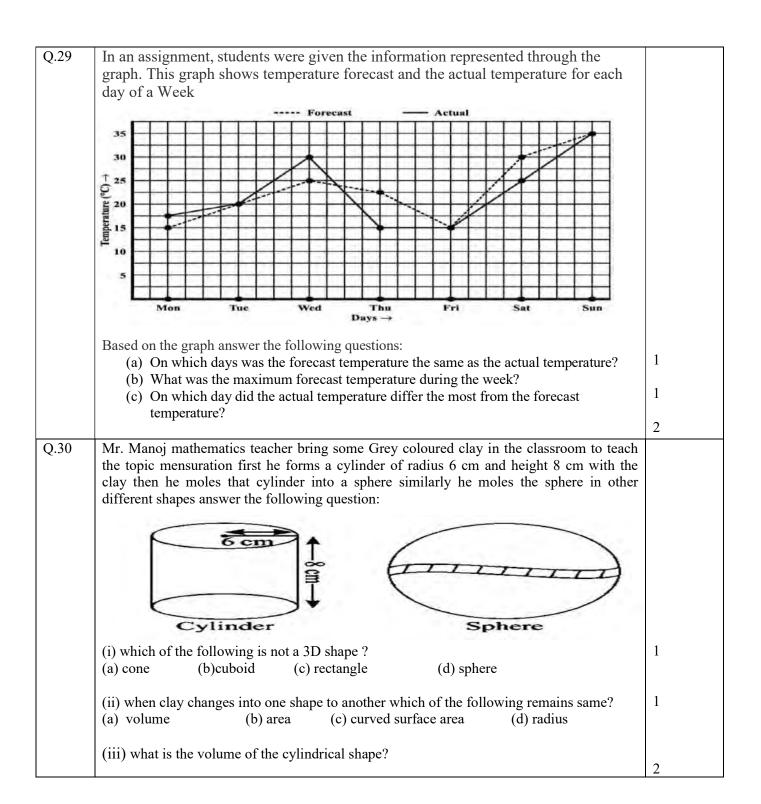
General instructions

- > All questions are compulsory.
- > This question paper has four sections A, B, C & D.
- > Section A has 15 questions MCQ carrying 1 mark each.
- > Section B has 5 questions carrying 2 marks each.
- > Section C has 5 questions carrying 3 marks each.
- > Section D has 5 questions carrying 4 marks each.

			SECTION A			
Q.1	Usual form of 8.62×	10 ⁴ is			1	
	A) 86200	B) 8620	C) 8.620	D) 86020		
Q.2	Factors of $t^2+8t+16$					
	A) (t +4) (t -4)	B) (t+4) (t+4)	C) (t+4) (4-t)	D) (t-4) (t-4)	1	
Q.3	The product of $a + b$ and $a-b$ is					
	A) 2 <i>b</i>	B) 2 <i>a</i>	C) a^2-b^2	D) $a + b$	1	
Q.4	The square of which of the following number will be an odd number					
			C) 64			
Q.5	The value of 2^{-4} is				1	
	A) ½	B) 1/8	C) 1/16	D) 16 other, then if x decreases -		
Q.6	If two quantities x as	nd y are in direct p	roportion with each o	ther, then if x decreases -	1	
	A)y will Increase	B) y will decre	ease C) y remains c	onstant D) None of above		
Q.7	If edge of a cube is 5 cm then volume is					
	A) 150cm ³	$B) 50 cm^3$	C) 125 cm^2	D) 125 cm^3		
Q.8	How many natural n	w many natural numbers lie between 13 ² and 14 ² .				
			C) 26	D) 27		
Q.9	Solve: $8x + 4 = 3(x - 1) + 7$					
	A) 1	B) -1	C) 0	D) none of these		
Q.10	A) 1 B) -1 C) 0 D) none of these If we subtract 4a - 7ab + 3b + 12 from 12a - 9ab + 5b - 3, then the answer is:					
	A) 8a+2ab+2b+15 B) 8a+2ab+2b-15					
	C) 8a-2ab+2b-15		D) 8a-2ab-2b-15			
	,		·		1	
Q.11	What is the length of the side of a square whose area is 441 cm ² ?					
0.15	A) 22 cm	B) 20 cm	C) 21	1 cm D) 11cm		
Q.12	Add: $5m (3 - m)$ and		~\ ~	. 2	1	
	A) 2m+m ²	B) 2m-m ²	C) -2:	$m+m^2$ D) $-2m-m^2$		

0.12	Channel of an alastron is 0.000,000,000,000,000,000,16 and an alim and in an arrival farm it	1				
Q.13	Charge of an electron is 0.000,000,000,000,000,000,16 coulomb and in exponential form i					
	can be written as A) 1.6×10^{-18} coulomb B) 1.6×10^{-19} coulomb					
	C) 1.6 ×10 ⁻²⁰ coulomb D) 1.6 ×10 ⁻²¹ coulomb					
Q.14	The value of $(2^{-1} - 4^{-1})^{-1}$	1				
Q.14		1				
Q.15	A) $1/4$ B) $1/8$ C) 4 D) 1 The value of expression $2a^2 + 2b^2 - ab$ for $a=2$, $b=1$ is?	1				
Q.13		1				
	A)2 B) 8 C) 4 D) 16 SECTION B					
Q.16	Find the square root of 1296	2				
2.10	OR	_				
	Find the square root of 2.25					
Q.17	The above graph shows the temperature of a patient in a hospital, recorded every hour.	2				
Q.17	The doove graph shows the temperature of a patient in a hospital, recorded every hour.					
	1 39					
	(a) 38					
	를 37 / / / / / / / / / / / / / / / / / /					
	E 36					
	36 January 37 January					
	34					
	Time					
	(A) What was the patient's temperature at 2 pm?					
	(B) When was the patient's temperature 38.5°C?					
0.19		2				
Q.18	If $(-3)^{m+1} \times (-3)^5 = (-3)^9$, then the value of m is?					
Q.19	Solve: $15(y-4) - 2(y-9) + 5(y+6) = 0$	2				
Q.20	Find the area of a rhombus whose diagonals are of lengths 16cm and 10.2 cm. OR					
	The shape of the top surface of a table					
	is a transzium. Find its area if its					
	parallel sides are 1 m and 1.2 m and					
	perpendicular distance between them is					
	0.8 m.					
	SECTION C					
Q.21	A machine in a soft drink factory fills 840 bottles in six hours. How many bottles will it fill	3				
	in five hours?					
	OR					
	In a modal of a ship, the mast is 9 cm high, while the mast of the equal ship is 12 m high.					
	If the length of the ship is 28 m, how long is the modal ship?					
Q.22	Solve: $5x-2(2x-7)=2(3x-1)+\frac{7}{2}$	3				
Q.23	The adjoining pie chart gives the marks scored in an examination by a student in Hindi,	3				
	English, Mathematics, Social Science and Science. If the total marks obtained by the					
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	students were 540, answer the following questions.					

	(i) In which subject did the student score 105 marks? (ii) How many more marks were obtained by the student in Mathematics than in Hindi? (iii) Examine whether the sum of the marks obtained in Social Science and Mathematics is more than that in Science and Hindi. OR If Gopal have a spinning wheel with 4 green sectors, 2 blue sectors and 1 red sector, what is the probability of getting a green sector? What is the probability of getting a non blue			
	sector? What is the probability of a getting a non red sector?			
Q.24 Q.25	Subtract: 3a (a+b+c)-2b(a-b+c) from 4c(-a+b+c) A road roller takes 750 complete revolutions to move once over to level a road. Find the area of the road if the Diameter of a road roller is 84 cm and length is 1 m.	3 3		
	SECTION D			
Q.26	 (1) A train is moving at a uniform speed of 75 km/hour. (a) How far will it travel in 20 minutes? (b) Find the time required to cover a distance of 250 km. (2) Rashmi has a road map with a scale of 1 cm representing 18 km. She drives on a road for 72 km. What would be her distance covered in the map? 			
Q.27	On a particular day, the sales (in rupees) of different items of a baker's shop are given below. Draw table and pie chart for this data. ordinary bread: 320 fruit bread: 80 cakes and pastries: 160 biscuits: 120 others: 40 Total: 720	2+2		
Q.28	Factorise: (a) $x^2 + 6x - 16$ (b) $x^4 - (y + z)^4$ OR (a) $12xy(9x^2 - 16y^2) \div 4xy(3x + 4y)$ (b) $p^2 + 6p + 8$	2+2		



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