

Vikas Bharati Public School
Sample Paper (Session 2024-25)
Class: VI
Subject: Mathematics

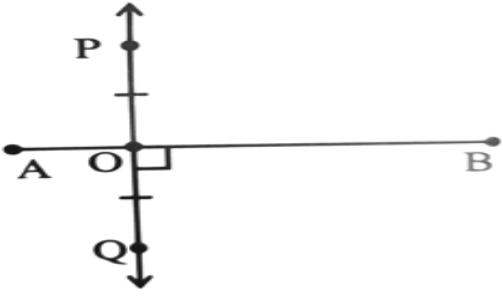
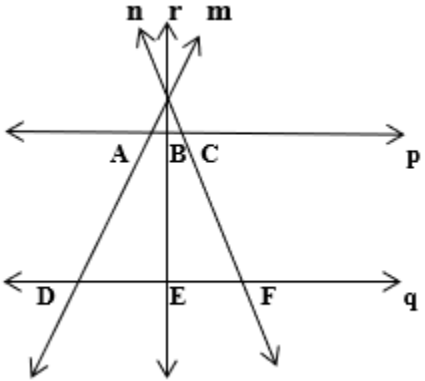
Time : 2 hours 30 minutes

M.M : 60

Note: 1. This question paper contains 4 printed pages and 30 questions.
2. Read all the questions carefully.

SECTION – A					
All questions are compulsory. In MCQ write the correct option with a complete answer.					
1.	The product of three consecutive numbers is always divisible by _____.				1
	a) 6	b) 7	c) 4	d) 5	
2.	How many line segments can pass through 2 given points?				1
	a) Many	b) Only two	c) One	d) Three	
3.	I am an angle more than $\frac{1}{4}$ of the revolution but less than $\frac{1}{2}$ of the revolution.				1
	a) Acute	b) Obtuse	c) Right	d) Reflex	
4.	_____ - $\frac{3}{7} = \frac{8}{7}$				1
	a) $\frac{8}{7}$	b) $\frac{3}{7}$	c) $\frac{11}{7}$	d) $\frac{5}{7}$	
5.	The Successor of the predecessor of – 50 is _____.				1
	a) – 48	b) – 49	c) – 50	d) – 51	
6.	Which of the following decimal number is smallest?				1
	a) 0.27	b) 1.5	c) 0.082	d) 0.103	
7.	A piece of wire is 120 cm long. What will be the length of each side if the wire is used to form a regular hexagon?				1
	a) 30 cm	b) 40 cm	c) 24 cm	d) 20 cm	
8.	$0.07 + 0.008 =$ _____.				1
	a) 0.15	b) 0.015	c) 0.078	d) 0.78	
9.	Abhishek is x years old. Manish's age is 3 years more than twice his age. Write Manish's age in terms of Abhishek's age.				1
	a) $2x + 3$	b) $3x + 2$	c) $3(2x)$	d) $2(3x)$	
10.	The ratio of 1 minute to 420 seconds is _____.				1
	a) 1:7	b) 1:8	c) 7:1	d) 1:7	

11.	Fill in the blanks.			
	a) _____ is the smallest number having four different prime factors.			1
	b) A simple closed curve made up entirely of line segments is _____			1
12.	Write True or False.			
	a) 3 more than – 4 is 1.			1
	b) To find the cost of painting the wall, we need to find the perimeter of the wall.			1
	c) The two terms of a ratio can be in different units.			1
13.	Do as directed:			
	a) AB is perpendicular to CD. If AB and CD intersect at point E , what is the measure of $\angle AED$?			1
	b) Reduce $\frac{60}{96}$ in lowest form.			1
	c) Find the amount returned if ₹500 is given for buying 10 erasers each for ₹y.			1
	d) The number of scouts in a school is depicted by the following pictograph. Observe the pictograph and answer the following questions. i. Which class has maximum and minimum number of scouts? ii. Which class has exactly four times the scouts as that of class X? 1  = 10 scouts	Class	Number of scouts	2
VI		   		
VII		 		
VIII		     		
IX		  		
X				
SECTION – B				
Do any 6 questions from Q14 to Q20. Over attempt will not be evaluated.				
14.	Give reason for the following: Square is also a parallelogram.			2
15.	Find $29 - (-12)$ and $(-29) - 12$. Are they equal?			2
16.	Sharda bought 2 kg 9 g of apples from a fruit seller for ₹210. Express the mass of apples bought in kg.			2
17.	Anuj spent ₹150 out of his pocket money of ₹200. What fraction of pocket money did he save? Express in its simplest form.			2
18.	Express the following as an algebraic expression. i. A ball and a kite cost ₹65. If the ball cost ₹b, what is the cost of the kite? ii. If the number of students in a school is y and the number of girls in the school is 35. Find the number of boys in the school.			2

19.	In the given figure $PQ \perp AB$ and $PO = OQ$. Is PQ the perpendicular bisector of line segment AB ? Give reason to support your answer.		2
20.	From the given figure, answer the following: i. Write a pair of parallel lines. ii. Two lines whose point of intersection is E.		2

SECTION – C

Do any 4 questions from Q21 to Q25. Over attempt will not be evaluated.

21.	Find the L.C.M. of 15, 28 and 45.	3
22.	Simplify i. $-90 + (-100) - (-62)$. ii. $-(-77) - (66) - (-55) + 22$.	3
23.	Hari covered 32 km 35 m by bus, 1 km 2 m by rickshaw and 305 m by walking. Find the total distance covered by him in km.	3
24.	In a town of population 18,000; 8500 are males, 8000 are females and remaining are children. Find the ratio of : a) Number of males to the total population of the town. b) Number of females to number of males. c) Number of children to the number of females.	3
25.	X and Y are two friends. X took three rounds of a square garden whose side measures 42 m and Y took four rounds of a rectangular garden measuring 40 m by 30 m. Who covered more distance and by how much?	3

	SECTION – D				
	Do any 3 questions from Q26 to Q29. Over attempt will not be evaluated.				
26.	Jennifer the florist has 72 red flowers, 27 yellow and 54 pink flowers. She wants to make the bouquets with the same number of each colour flowers in each bouquet. What is the greatest number of bouquets she can make?				4
27.	Amit takes $4\frac{3}{4}$ minutes to walk once around a park while Deepak takes $5\frac{5}{6}$ minutes for the same. Who takes less time and how much?				4
28.	In a garden, $30\text{ m} \times 10\text{ m}$, three square shaped flower beds of side 3m each are designed. Find: a) Area covered by three flower beds. b) Remaining area of the garden. c) If the remaining area of the garden needs to be planted with grass at ₹150 per sq. m, find the cost of planting grass.				4
29.	The cost of 3 dozen soap is ₹ 900. How many soaps can be purchased for ₹1250? Also, find the cost of 12 dozen soaps.				4
	SECTION – E				
	In MCQ write the correct option with a complete answer.				
30.	There are markings on the dial of a domestic appliance as shown in the figure. Observe the figure and answer the following questions.				
(i)	Fill in the blanks. One complete revolution = _____ degree.				1
(ii)	How many degrees does the pointer turn when it moves clockwise from off to cold?				1
	a) 45°	b) 30°	c) 90°	d) 60°	
(iii)	How many degrees does the pointer turn when it moves anticlockwise from hot to warm?				1
	a) 45°	b) 90°	c) 120°	d) 135°	
(iv)	If there are ten pointers on the dial of the domestic appliance , then what is the angle between a pair of adjacent pointers ?				1