Seat No.: []]]] aper - 2025		
er - 1	Piyush Sojitra	
	[Marks: 80]	
Numbers from 1	to 54	
s in numerical o	rder.	
ork each) 2. No. 1 to 6)	(24) (06) (D) 3	
·	(D) -40 (D) -5	
1)n rsect at point M.	(D) $(n-2)n$ if MA =6, MB=9 and	
	(D) 11	

Vasishtha Model Test Paper - 2025 (12)(E)

Standard Maths Paper - 1

Shree Vasishtha Vidhyalaya - Vav

[Time: 3 Hour]

- Instructions:
 - Write in a clear legible handwriting.
 - 2) This question paper has four Sections A, B, C & D and Question Numbers from 1 to 54
 - All Sections are compulsory. General options are given.
 - The numbers to the right represent the marks of the question.
 - Draw neat diagrams wherever necessary.
 - 8) New sections should be written in a new page. Write the answers in numerical order
 - 7) Calculator and smart watch are not allowed.

SECTION -A

Answer the following questions as required(Que. 1 to 24) (1 mark each)

Choose the right option So that the statement become true (Que. No. 1 to

1. If HCF (65,117) = 65m - 117 then, m = ____

(A)4

(B) 2

(C)1

2. The quadratic polynominal are 7 and 5.

 $(A) X^2 + 12X - 35$

(B) $X^2 - 12X + 35$

(C) $X^2 + 35X - 12$

(D) $X^2 - 35X + 12$

3. If 2x + 3y = 15 and 3x + 2y = 25 then x - y =_____

(A) 10

(B) - 10

(C)40

4. If the determinate of the equation $2x^2 + 5x - k = 0$ is 81, k =_____

(A) 5

(B)7

(c) - 7

5. The n^{th} term at an AP is (2n + 1) So the sum is first n terms

(A) n(n+1)

(B)n(n+2)

(C)(n-1)n

6. AB | CD in the paralleogram ABCD. And AC and BD intersect at point M. if MA =6, MB=9 and

MC = 8 then, MD =

(A) 58

(B) 12

(C) <u>58</u>

Choose the correct answers from the answer given in brackets and write the following state m_{ent} as

true : (Que. No. 7 to 12)

- 7. The distance of the point (5, 3) to X- axis is ______. (0, 3, 5)
- 8. $\sqrt{1 (\sin^2\theta + \cos^2\theta)} =$ (2, 0, $\sqrt{2}$)
- 9. Maximize the circle _____ parallel tangents. (1, 2, 3)
- 10. An angle of _____ degree is made by the clock face in a minute. $(0.5^{\circ}, 0.05^{\circ}, 50^{\circ})$

 $\{04\}$

(04

(04

- 11. The total surface area of a closed hemisphere is _____ . $(\pi r^2, 2\pi r^2, 3\pi r^2)$
- 12. For any information, Z M = 6 then $M \overline{X} =$ (2, 3, 12)
- State whether the following statements are true or false (Que. No, 13 to 16)
 - 13. For any event A, P(A) is always greater then p(A')
 - 14. The Graph of y = 0 shows the y-axis.
 - 15. The determinat of the quadratic equation $2x^2 8x 5$ is 104
 - 16. The point (3, -7) is at a distanced of 7 on the y axis.
- Answer the following questions in one sentence, word or number (Que. No. 17 to 20)
 - 17. Find the area of a sector of a circle with radius R if angle of the sector is P^o
 - 18. For given data $\Sigma xi = 405 \& \Sigma fi = 27$, then find \overline{X} .
 - 19. HCF of 35 and 22 is?
 - ${\bf 20.\,State\,the\,standardized\,format\,of\,the\,quadratic\,equation.}$
- Match following: (Que. No. 21 to 24)

A	В
21. $\alpha\beta + \beta\gamma + \gamma\alpha$	(a) $\frac{-b}{a}$
22. αβγ	(b) $\frac{C}{a}$
	(c) $\frac{-d}{a}$

A	В
21. $\sin 60^{\circ}$	(a) 1/2
22. cos60°	(b) $\sqrt{3}/2$
	(c) 1/√2