

DAYANAND ANGLO VEDIC PUBLIC SCHOOL, AIROLI
PERIODIC TEST II
SAMPLE PAPER

SUBJECT: MATHEMATICS
STD: VI

MAX MARKS: 50
DURATION: 2 HOURS

General Instructions: This question paper consists of 2 parts, part A and part B.

Part A consists of 2 sections.

- Section 1 are questions numbers 1 to 6 which are objective questions of 1 mark each.
- Section 2 is a case study question containing 3 questions (2 questions a & b of 1 mark each and 1 question c of 2 marks)

Part B consists of 3 sections.

- Section 3 are question numbers 8 to 13 of short answer type 1 questions of 2 marks each.
 - Section 4 are question numbers 14 to 19 of short answer type 2 questions of 3 marks each.
 - Section 5 are question numbers 20 & 21 of long answer type questions of 5 marks each.
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PART A
SECTION 1

1. Arrange in ascending order: -5, 6, 0, -25, 12, -90?
2. How many degrees are there in $\frac{5}{6}$ of straight angle?
3. What is the sum of the interior angles of a triangle?
4. Express 96 as the sum of two odd primes.
5. In the figure below, point P is on the line segment AB. If AP = 3 cm and PB = 4 cm, what is the total length of the line segment AB?



6. Assertion Reason Question:

Assertion (A): 24 and 25 are co-prime numbers.

Reason (R): Two numbers are said to be co-prime when they have only 1 as common factor.

Options:

- a) Both A and R are true and R is the correct explanation of A
- b) Both A and R are true but R is not the correct explanation of A
- c) A is true but R is false
- d) A is false but R is true

SECTION 2

7. Case study based question:

A school has three different events scheduled on a regular basis. The science exhibition happens every 4 days, the art workshop every 6 days, and the sports day every 9 days. All three events took place on the 1st of September.

- a. After how many days will all three events happen on the same day again?
- b. On which date in October will all three events take place together?
- c. If the art workshop is rescheduled to every 8 days instead of 6, then after how many days will all three events happen together?

PART B
SECTION 3

8. Using distributive property, simplify:

$$223 \times 45 + 223 \times 66 - 223 \times 11$$

9. Write Roman numeral for: a) XLVI b) XCLIV

10. Find the prime factorization of 484

11. Indicate the following by using integers:

- a) Climbing up 13 steps. b) Withdrawing ₹1000 from a bank.

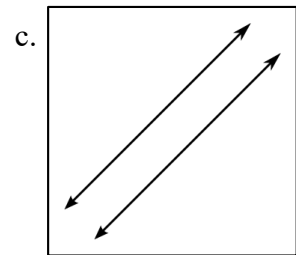
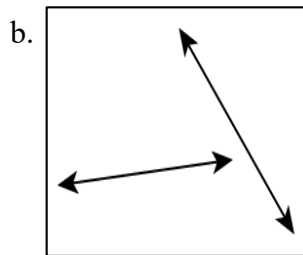
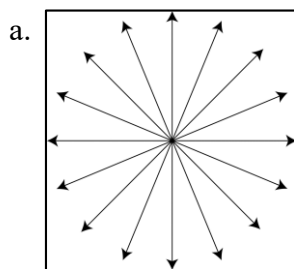
12. Simplify: $45 + [54 - \{95 \div (15 - 10)\}]$

13. Can you construct a triangle using line segments of 6cm, 5cm and 13cm? Give reason.

SECTION 4

14. Construct a line segment AB of length 8cm. From this line segment, cut off a line segment AC of length 5cm. Measure the length of the remaining line segment CB.

15. Observe the following figure and identify as intersecting lines, parallel lines and Concurrent lines.



16. Draw the following pairs of angles. Also name them. (Write the measures of angles also)

- a) One linear pair. b) One pair of complementary non adjacent angles.

17. Apply the divisibility rule and show that:

- a) 6940864 is divisible by 8 b) 454056 is divisible by 3

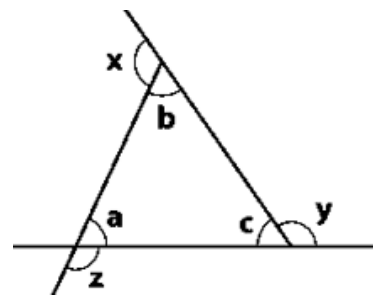
18. Simplify: $(-10^3 + 10^2 + 10)$

19. A merchant has 120 liters, 180 liters and 360 of three kinds of oil. He wants to sell the oil by filling the three kinds in tins of equal volumes. Find the greatest volume of such a tin.

SECTION 5

20. Look at the figure and answer the questions that follow:

- a. Name all the exterior angle formed in the given figure.
- b. What are the interior opposite angles corresponding to $\angle y$?
- c. Name the interior adjacent angle corresponding to $\angle x$
- d. Name the interior opposite angles corresponding to $\angle z$
- e. If the measure of $\angle x = 110^\circ$, then find the measure of $\angle b$



21. Solve the following:

- a. $45 + (-23)$ b. $(-25) \times 12 \times (-1)$ c. $56 \div (-8)$ d. Subtract (-85) from (-35)
e. $78 - 45 + (-10) - (-13)$
