



**BURARI PUBLIC SCHOOL**  
...a venture with **UNIQUE**

**PERIODIC TEST - II (2026-27)**

**CLASS - VI**  
**SUBJECT - MATHEMATICS**

Date \_\_\_\_\_

**M.M. = 40**

**Name:** ..... **Roll No:**..... **T. Sign:** .....

**General Instructions:**

- All questions are compulsory.
- Handwriting should be neat and clean.
- This question paper is divided into four sections: A, B, C, and D.
- **Section A** – Q1 – Multiple choice questions (10 marks).
- **Section B** – Q2 – Q6 (2 Marks question each).
- **Section C** – Q7 – Q11 (3 Marks question each).
- **Section D** – Q12 – Case Based Question (5 marks).

Note: As per the guidelines of the New Education Policy (NEP), this holiday homework assessment will be conducted as an Open Book Assessment.

Students are encouraged to refer to their textbooks, notebooks, and other learning resources while completing the assignment. The focus of this assessment is on understanding, application, and expression of ideas rather than rote learning. Students are advised to maintain honesty and originality in their work.

**SECTION – A**

**Q1. Multiple choice questions:**

**(1 × 10 = 10 marks)**

- I. An angle less than  $180^\circ$  but more than  $90^\circ$  is called:
- (a) Right angle (b) Obtuse angle  
(c) Acute angle (d) Straight angle
- II. The lines that never intersect each other are \_\_\_\_\_ lines.
- (a) parallel (b) intersecting  
(c) perpendicular (d) bisectors
- III. Which among the following is the palindromic numbers?
- (a) 6545 (b) 8456  
(c) 6174 (d) 12121
- IV. A line has:
- (a) No end points (b) One end point  
(c) Two end points (d) Infinite end points

- V. The data representing through pictures are  
 (a) Pictograph (b) Bar graph  
 (c) Tally marks (d) Line graph
- VI. Which among the following is called the 'Kaprekar constant' ?  
 (a) 7416 (b) 6174  
 (c) 1467 (d) 4761
- VII. What is the angle between two hands of a clock at 9:00 pm?  
 (a)  $120^{\circ}$  (b)  $180^{\circ}$   
 (c)  $60^{\circ}$  (d)  $90^{\circ}$
- VIII. The data arranged in ascending or descending order is called  
 (a) observation (b) Raw data  
 (c) Arrayed data (d) Primary data

IX. **Assertion (A):** The frequency of 5 in the data 5, 8, 6, 1, 4, 8, 5, 5, 4, 2, 5 is 4.

**Reason (R):** Frequency is the number of times an observation occurs in the data.

**Study both the statements and state which of the following is correct:**

- (a) Both A and R are true and R is the correct explanation of A.  
 (b) Both A and R are true and R is not the correct explanation of A.  
 (c) A is true, but R is false.  
 (d) A is false, but R is true.
- X. **Assertion (A):** A line segment has no end points.

**Reason (R):** A line extends indefinitely in both directions.

**Study both the statements and state which of the following is correct:**

- (a) Both A and R are true and R is the correct explanation of A.  
 (b) Both A and R are true and 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 – B

❖ 2 Marks question each

(2×5=10 marks)

Q2. Classify as open curves or closed curves:

(i)



(ii)

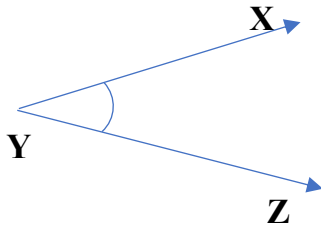


**Q3.** How many degrees are there in three right angles?

**Q4.** Colour or mark the supercells in the table given below:

2180	3546	1485	1258	5489	4635	7589	6666	8946
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**Q5.** Name the vertex and arms in the given angle.



**Q6.** Check if the Collatz Conjecture holds for the starting number 68.

### SECTION – C

❖ 3 Marks question each

(3×5=15 marks)

**Q7.** The ages (in years) of 25 students of class VI of a school are given below:

12, 15, 12, 14, 13, 13, 12, 15, 12, 12, 13, 15, 12, 12, 14, 12, 15, 14, 15, 12, 12, 15, 14, 15, 15

Prepare a frequency distribution table.

**Q8.** The following pictograph shows the number of absentees in a class of 35 students during the first week of a month.

Days	Number of absentees
Monday	☹ ☹ ☹ ☹
Tuesday	☹ ☹ ☹
Wednesday	
Thursday	☹ ☹ ☹
Friday	☹ ☹
Saturday	☹ ☹ ☹ ☹ ☹ ☹

☹ = 1 absentee

Observe the pictograph and answer the following questions:

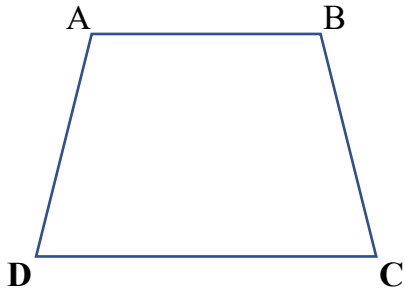
- Which day had full attendance?
- On which day were the maximum number of students absent?
- What was the total number of absentees in the week?

**Q9.** The following are the runs scored by a cricketer in the first six overs:

Over	1	2	3	4	5	6
Runs	10	16	12	8	10	5

Represent the above data using a bar graph.

**Q10.** How many angles are there in the given figure? Mark and name all the angles.



**Q11.** What is the sum of the smallest and largest 6-digit palindromic numbers? Also, find the difference between them.

### SECTION – D

**Q12. Case Based Question**

**(5 marks)**

Kiran loves observing patterns in numbers. One day, she noted down some sequences:

Pattern A: 100, 200, 300, 400, 500, \_\_\_

Pattern B: 50, 100, 200, 400, \_\_\_

Pattern C: 1, 3, 6, 10, 15, \_\_\_

She realized that each pattern follows a certain rule. She discussed with her friend Aarav, who said that understanding patterns helps in solving bigger mathematical problems easily.

**Based on the above information, answer the following:**

- (i). Identify the rule followed in Pattern A and find the next number. (1 mark)
- (ii). Write the rule and find the missing number in pattern B. (1 mark)
- (iii). Observe Pattern C carefully. What kind of pattern is it? Find the next number. (1 mark)
- (iv). Create your own number pattern using addition or multiplication and write the first 4 terms. (2 marks)