

O.P. JINDAL SCHOOL, SAVITRI NAGAR

Periodic Test – I (Round – I) 2025 – 26

Class/Section : VI / _____

MM : 20

Subject : Mathematics

Time : 1 Hr.

Name: _____

Roll No. _____

General Instructions: All questions are compulsory.

- i. Questions 1 to 8 are of 1 Mark.
- ii. Questions 9 to 11 are of 2 Marks.
- iii. Questions 12 to 13 are of 3 Marks.

Section A

Multiple choice questions:

1. Virahanka numbers are
 - a) 1,3,6,10,15,..
 - b) 1,7,19,37,...
 - c) 1,2,3,5,8,...
 - d) none of these
2. Which of the following is a triangular number?
 - a) 5
 - b) 10
 - c) 12
 - d) 16
3. What is the next number in the sequence 1, 4, 9, 16...?
 - a) 20
 - b) 24
 - c) 25
 - d) 30
4. How many sides does a hexagon have?
 - a) 5
 - b) 6
 - c) 7
 - d) 8
5. _____ is both a triangular number and a square number?
 - a) 4
 - b) 8
 - c) 25
 - d) 36
6. If you start with the number 1 and keep adding 2, what sequence are you creating?
 - a) Even numbers
 - b) Odd numbers
 - c) Prime numbers
 - d) Square numbers
7. The missing term in the sequence 1, 8, ___, 64, 125 is:
 - a) 4
 - b) 9
 - c) 15
 - d) 27
8. The sequence 1, 7, 19, 37, ... is called as
 - a) Squares
 - b) Triangular numbers
 - c) Cubes
 - d) Hexagonal numbers

Section B

Answer the following:

OR

Draw neat and clean figure of a regular Hexagon.

11. Write a sequence of triangular numbers and draw neat and clean patterns of first three triangular numbers.

Section C

12. Which sequence is obtained by multiplying the triangular numbers by 6 and adding 1? What is the 5th term of the sequence so obtained?

OR

If we begin the sequence of the powers of 2 with 1 as the first term then what will be the 6th term of this sequence? Find the sum of the first 4 terms of this sequence

13. a) Why are 1, 3, 6, 10, 15, ... called triangular numbers?
b) Why are 1, 4, 9, 16, 25, ... called square numbers or squares?
