



## ARITHMETIC PROGRESSION

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## MATHS PRACTICE PAPER 01

Total Marks : 20

### I. Choose the Most Appropriate Answers

3 x 1 = 3

- The  $n^{\text{th}}$  term of an A.P. is given by  $a_n = 3 + 4n$ . The common difference is
  - 7
  - 3
  - 4
  - 1
- If the sum of three numbers in an A.P. is 9 and their product is 24, then numbers are
  - 2, 4, 6
  - 1, 5, 3
  - 2, 8, 4
  - 2, 3, 4
- The sum of first  $n$  odd natural numbers is
  - $2n^2$
  - $2n + 1$
  - $2n - 1$
  - $n^2$

### II. Solve the following

2 x 1 = 2

- If  $a = 3$ ,  $d = 7$  and  $n = 8$  the find  $a_n$
- Given  $a_n = 4$ ,  $d = 2$ ,  $S_n = -14$ , find  $n$

### III. Solve the following

4 x 2 = 8

- Find the number of terms of AP - 7, 13, 19, ..., 205
- Find the sum of 2, 7, 12, ....., to 10 terms
- Find the 31<sup>st</sup> term of an A.P. whose 11<sup>th</sup> term is 38 and the 16<sup>th</sup> term is 73
- The first and the last term of an AP are 17 and 350 respectively. If the common difference is 9, how many terms are there?

### IV. Solve the following

1 x 3 = 3

- An A.P. consists of 50 terms of which 3<sup>rd</sup> term is 12 and the last term is 106. Find the 29<sup>th</sup> term

### V. Solve the following

1 x 4 = 4

- The sum of 4<sup>th</sup> and 8<sup>th</sup> terms of an A.P. is 24 and the sum of the 6<sup>th</sup> and 10<sup>th</sup> terms is 44. Find the first three terms of the A.P

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