* Creative Math Marathi *

Preparation of CET

Math 1

Chapter 3 - Arithmetic progression

1) The sequence $-10, -6, -2, 2, \ldots$
A) is an A.P., Reason $d = -16$
B) is an A.P, Reason $d = 4$
C) is an A.P, Reason $d = -4$
D) is not an A.P.

2) First four term of an A.P. are ..., whose first term is -2 and common diffrence is -2
A) $-2, 0, 2, 4$ B) $-2, 4, -8, 16$ C) $-2, -4, -6, -8$ D) $-2, -4, -8, -16$

3) What is the sum of first 30 natural numbers?
A) 464 B) 465 C) 462 D) 461

4) For an given A.P, $t_7 = 4$ and $d = -4$ then $a = ?$
A) 6 B) 7 C) 20 D) 28

5) For an given A.P. $a = 3.5$, $d = 0$, $n = 101$ then $t_n = ?$
A) 0 B) 3.5 C) 103.5 D) 104.5

6) In an A.P. first two terms are $-3, 4$ then t_{21} is—
A) -143 B) 143 C) 137 D) 17

7) For any A.P $d = 5$ then $t_{18} - t_{17} = ?$
A) 5 B) 20 C) 25 D) 30

8) Sum of 1st five multiple of 3 is——
A) 45 B) 55 C) 15 D) 75

9) $10, 15, 5, \ldots$ In this A.P. Sum of 1st 10 terms is——
A) -75 B) -125 C) 75 D) 125

10) In an A.P. 1st term is 1 and the last term is 20. the sum of all term is = 399 then $n = ?$
A) 42 B) 38 C) 21 D) 19

11) Sachin invested in a national saving certificate scheme. in the 1st year he invested ₹5000, in the second year ₹7000, in the third year ₹9000 and so on. find the total amount that he invested in 12 years

A) ₹12900 B) 192000 C) ₹19200 D) ₹1920

12) First term and common difference of an A.P are 6 and 3 respectively: find S_{27}

A) 1215 B) 1512 C) 1200 D) 1552

13) Find the sum of first n natural numbers

A) $\frac{n(n+1)}{2}$ B) $n(n+1)$ C) n^2+n D) 1250

14) Find t_n for given A.P = 3, 8, 13, 18, ...

A) $5n-2$ B) 148 C) 152 D) $2n-5$

15) Find the common difference of given AP: 2, 4, 6, 8, ...

A) 2 B) 4 C) 6 D) 8

16) ~~एका अंकगणिती श्रेढीचे दुसरे पद 13 व 5 वे पद 25 असेल तर तिचे 7 वे पद काढा~~

16) If second term and fifth term of an A.P are 13 and 25 respectively, find its 7th term

A) 30 B) 33 C) 37 D) 38

17) In an A.P 0, -4, -8, -12, ... find first term and t_2

A) $a=0, d=-8$ B) $a=4, t_2=-12$

C) $a=0, t_2=-4$ D) $a=0, d=-12$

18) If $t_n = 2n+1$ then find third term of sequence

A) 3 B) 5 C) 7 D) 9