

ONLINE COACHING - DAY 45 (19/09/2020 - SATURDAY)

Total points 25/25 ?

Topic : AP and GP

0 of 0 points



Name of the Candidate *

M5

Place of the candidate *

Thrissur



WHATS APP NUMBER (JOINED IN SAI EDUCATION ONLINE COACHING PLATFORM GROUP) *

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Please watch the following videos and answer the following questions

25 of 25 points

<https://youtu.be/3BREHkSz4h8>

<https://youtu.be/fY0ezJxVZZk>

<https://youtu.be/LSq7irqdmgc>

✓ 1. If 13, X, 22 are three consecutive terms of an AP. What is the value of X? 1/1 *

17.5



17

35

4.5

Feedback

17.5



✓ 2. If a, b, c are three consecutive terms of an Arithmetic Progression (AP), $1/1$ then which among the following is true? *

$b = (a+b+c)/3$ ✓

$b = c - a$

$b = (a+b+c)/2$

$b = a + c$

Feedback

$b = (a+b+c)/3$

✓ 3. Which term of the sequence 1, 6, 11,..... is 301? *

1/1

60

50

62

61 ✓

Feedback

61



✓ 4. Number of terms common to the two arithmetic progressions 5, 10, 15, 1/1 ____, 315 and 4, 8, 12, ____, 604 is: *

- 13
- 14
- 15
- 16



Feedback

15

✓ 5. The sum of first 13 terms of an AP is 390, then find the 7th term? * 1/1

- 10
- 27
- 30
- 45



Feedback

30



✓ 6. If the sum of 11 consecutive terms of an AP is X, then sixth term is: * 1/1

X/11



X/6

11X

6X

Feedback

X/11

✓ 7. If the nth term of an arithmetic progression is $4n - 1$, what is the sum of first n terms? *

$n(2n + 1)/2$

$n(2n - 1)/2$

$n(2n - 1)$

$n(2n + 1)$



Feedback

$n(2n + 1)$



✓ 8. If the n th term of an AP is $2n + 1$, then the sum of first three terms is? * 1/1

15



12

21

8

Feedback

15

✓ 9. Find the sum of the ' n ' terms of an arithmetic progression whose first term is ' a ' and the last term is ' b ' is * 1/1

$1/2$

$(n/2)(a+b)$



$(b-a)/2$

$(n/2)(b-a)$

Feedback

$(n/2)(a+b)$



✓ 10. What is the sum of the even integers from 100 to 1000? *

1/1

280450

250840

248050

208450



Feedback

248050

✓ 11. Find the sum of the numbers lying between 200 and 700 which are multiples of 5? *

1/1

44550

34440

65240

32300



Feedback

44550



✓ 12. Find the 10th term of 2,6,10,14,18..... *

1/1

- 35
- 38
- 24
- 58

✓

✓ 13. Find the total number of term of 5,9,13,.....89 *

1/1

- 20
- 21
- 22
- 23

✓

✓ 14. Find the sum of 10 items of AP -11, -8, -5,..... *

1/1

- 25
- 30
- 45
- 50

✓



✓ 15. Find the sum of first 100 items of AP of 1, 4, 6, 5, 11, 6,..... * 1/1

3600

7600

4750

6175



✓ 16. Find the sum of first 99 terms 1-2-3+2-3-4+3-4-5+..... * 1/1

-600

-599

-660

-626



✓ 17. Find the sum of all two digit numbers which will exactly divided by 9? * 1/1

478

585

999

499





✓ 18. Find the sum of all two digit numbers when they are divided by 9 leaves remainders 3? * 1/1

- 625
- 425
- 450
- 525



✓ 19. The sum of 2nd and 5th term of AP is 8 and that of the 3rd and 7th term is 14. Find the 11th term of AP? * 1/1

- 20
- 18
- 19
- 14



✓ 20. Find the 10th term of 5,10,20,40.... * 1/1

- 2566
- 2560
- 3560





2580

✓ 21. Find the sum of 10 terms of a GP. $S_n = a(r^n - 1) / r - 1$. $a=5$, $r = 2$ * 1/1

3612

5115 ✓

4512

5111

✓ 22. The 7th term of a GP is 8 times of the fourth term. What will be the first term, if its 5th term is 48? * 1/1

5

8

6

3 ✓

✓ 23. Find the 20th term of $3/5, 3/7, 3/9, 3/11$ * 1/1

$3/43$ ✓

$3/45$

$3/47$



3/49

✓ 24. Find the Harmonic Mean between 2 and 6 *

1/1

2

3

4

5



✓ 25. Find the HM between 5 and 12? *

1/1

120/11

7

120/7

9



THANK YOU

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