

100 DAYS ONLINE COACHING . DAY - 105. (30-7-2019). AP & GP & HP



NAME OF THE CANDIDATE *

M4

PLACE OF CANDIDATE *

PATHANAMTHITTA

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

*

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QUESTIONS

1. What is the sum of all 3 digit numbers that leave a remainder of '2' when divided by 3? * 1 point

- 897
- 1,64,850
- 1,64,749
- 1,49,700

2. What is the sum of all positive integers up to 1000, which are divisible by 5 and are not divisible by 2? * 1 point

- 10,050
- 5050
- 5000
- 50,000

3. The sum of third and ninth term of an A.P is 8. Find the sum of the first 11 terms of the progression. * 1 point

- 44
- 22
- 19
- None of the above

4. How many 2-digit positive integers are divisible by 4 *

1 point

- 32
- 22
- 30
- 34
- 10

5. What is the sum of the following series? $-64, -66, -68, \dots, -100$ *

1 point

- 1458
- 1558
- 1568
- 1664

6. The sum of the three numbers in A.P is 21 and the product of the first and third number of the sequence is 45. What are the three numbers? *

1 point

- 5, 7, and 9
- 9, 7, and 5
- 3, 7, and 11
- Both (1) and (2)
- None of these

7. A piece of equipment cost a certain factory 600,000. If it depreciates in value, 15% the first year, 13.5 % the next year, 12% the third year, and so on, what will be its value at the end of 10 years, all percentages applying to the original cost? *

- 2,00,000
- 1,05,000
- 4,05,000
- 6,50,000

8. If a rubber ball consistently bounces back $\frac{2}{3}$ of the height from which it is dropped, what fraction of its original height will the ball bounce after being dropped and bounced four times without being stopped? *

- 16/81
- 16/27
- 4/9
- 37/81
- 9/12

9. Find the 6th term for the AP : 11, 17, 23, 29, ... *

- 30
- 36
- 37
- 41

10. The sum of n terms of an A.P. is $3n^2 + n$, find the n th term. *

1 point

- $6n - 4$
- $4n - 4$
- $6n - 2$
- $4n - 2$

11. Find the sum of the following series $3 + 7 + 11 + 15 + \dots$ To 30 terms *

1 point

- 1920
- 1970
- 1830
- 1740

12. Find the position of 62 in the following series 2, 5, 8,? *

1 point

- 26
- 21
- 23
- 20

13. Find the sum of the following series $72 + 70 + 68 + \dots + 40$ *

1 point

- 886
- . 952
- . 918
- . 988

14. In the series 2, 6, 18, 54, what will be the 8th term ? *

1 point

- 4370
- 4374
- 7443
- 7434

15. If you save 1 paise today, 2 paise next day and 3 paise the succeeding day and so on, what will be your savings in 365 days? *

1 point

- 666.75
- 665.35
- 668.85
- 667.95

16. Find the 15th term of an arithmetic progression whose first term is 2 and the common difference is 3. *

1 point

- 45
- 38
- 44
- 40

17. The 5th term and 21st term of a series in A.P are 10 and 42 respectively. Find the 31st term. *

1 point

- .50
- .55
- .65
- .62

18. The sum of n terms of a series in A.P is $6n^2 + 6n$. What is the 4th term of the series? *

1 point

- 38
- 49
- .60
- .48

19. An Arithmetic Progression has 23 terms, the sum of the middle three terms of this arithmetic progression is 720, and the sum of the last three terms of this Arithmetic Progression is 1320. What is the 18th term of this Arithmetic Progression? * 1 point

- 240.
- 360
- 340
- 440

20. The first term of an AP is 10 and the last term is 28. If the sum of all terms is 190, what is the common difference? * 1 point

- 5
- 3
- 2
- 1

THANK YOU!

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