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Sequence, Series and Progression Practice

20 Minutes - (Don't skip any questions)

1)	If t	the ratio of the	sum	of the first 6 t	erm:	s of a G.P. to th	e su	m of the first 3	terr	ns of the G.P. is 9
,		hat is the comm								
	A.	1/9	В.	1/3	C.	2	D.	3	E.	9
2)	The sum of the <i>fourth</i> and <i>twelfth</i> term of an arithmetic progression is 20. What is the sum of the first 15 terms of the arithmetic progression?									
	A.	120	В.	150	C.	170	D.	200	E.	270
3)	of	he sum of $3^{\sf rd}$ an the same program 1^{st}	ressi	on. Which of th	nese		zero			nd 13 th elements <i>None</i>
4)		nd the 10 th term 0.27		$t_1 = 2.1 \text{ and } t_4 = 0.81$.83 1.17	D.	1.29	E.	None
5)		nd the 5 th term								
	A.	2	В.	3	C.	4	D.	5	E.	6
6)		nd the sum of n 1743		ples of 3 from 3 1713		99 inclusive. 1683	D.	1653	E.	1623
7) Find the sum of all even numbers from 2 to 200 inclusive.										
,,		10000		10100		11010		11100	E.	11110
8)		hat is the sum o		two digit num 676		that give a rem		der of 3 when a 777		ivided by 7? 784

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- 9) The sum of n terms of the series: $1^2 2^2 + 3^2 4^2 + 5^2 6^2 + \cdots$ is given by the formula: (n is
 - A. $-\frac{n(n+1)}{2}$ B. $\frac{n(n+1)}{2}$ C. -n(n+1) D. -n+1 E. None

- 10) If the middle term, of an increasing GP having three terms, is doubled and the new numbers are in AP, then the common ratio of the GP is:
 - A. $-2 + \sqrt{3}$ B. $2 \sqrt{3}$ C. $2 + \sqrt{3}$ D. $-2 \sqrt{3}$ E. None

- 11) The sum of n terms of the series: $\frac{3}{1^2} + \frac{5}{1^2 + 2^2} + \frac{7}{1^2 + 2^2 + 3^2} + \cdots$ is

 A. $\frac{6n}{n+1}$ B. $\frac{9n}{n+1}$ C. $\frac{12n}{n+1}$ D. $\frac{3n}{n+1}$ E. None