ARITHMETIC PROGRESSION

Q1.	The 10th term of the AP: 5, 8, 11, 14, is					
(A)	32	(B)	35			
(C)	38	(D)	185			
Q2.	In an AP, if $d = -4$, $n = 7$, an $= 4$, then a is					
(A)	6	(B)	7			
(C)	20	(D)	28			
Q3.	The list of numbers $-10, -6, -2, 2,$ is					
(A)	An AP with $d = -16$	(B) An AP with d = 4				
(C)	An AP with $d = -4$	(D)	Not an AP			
Q4.	The first four terms of an AP, whose first term is –2 and the common difference is –2, are					
(A)	-2, 0, 2, 4	(B)	-2, 4, -8, 16			
(C)	-2, -4, -6, -8	(D)	-2,-4,-8,-16			
Q5.	If the 2nd term of an AP is 13 and the 5th term is 25, what is its 7th term?					
(A)	30	(B)	33			
(C)	37	(D)	38			
Q6.	If 7 times the 7th term of an AP is equal to	11 time	es its 11th term, then its 18th term will be			
(A)	0	(B)	1			
(C)	2	(D)	3			
Q7.	If the first term of an AP is -5 and the comr	non di	fference is 2, then the sum of the first 6 terms			
	is					
(A)	1	(B)	-1			
(C)	0	(D)	2			
Q8.	The sum of first 100 multiples of 3 is					
(A)	15130	(B)	15100			
(C)	15120	(D)	15150			
Q 9.	In an AP if $a = -7.2$, $d = 3.6$, an $= 7.2$, then n is					
(A)	-5	(B)	5			
(C)	4	(D)	7			
	1	1				

Q10.	In an AP, if $a = 3.5$, $d = 0$, $n = 101$, then a_r	will be			
(A)	3.5	(B)	5.5		
(C)	4.5	(D)	6.5		
Q11.	The 11th term of the AP: -5, -5/2, 0, 5/2,is				
(A)	-20	(B)	20		
(C)	10	(D)	-10		
Q12.	What is the common difference of an AP in which $a_{18} - a_{14} = 32$?				
(A)	-8	(B)	5		
(C)	8	(D)	-5		
Q13.	Two APs have the same common different	ce. The	first term of one of these is -1 and that of the		
	other is -8 . Then the difference between their 4th terms is				
(A)	7	(B)	8		
(C)	9	(D)	10		
Q14.	The sum of last ten terms of the AP: 8, 10, 12,, 126.is				
(A)	1170	(B)	1250		
(C)	1120	(D)	1130		
Q15.	If 7 times the 7th term of an AP is equal to) 11 time	es its 11th term, then its 18th term will be		
(A)	-1	(B)	0		
(C)	2	(D)	1		
Q16.	Find the sum of all the 11 terms of an AP	whose n	niddle most term is 30		
(A)	330	(B)	303		
(C)	340	(D)	304		
Q17.	In an AP if $a = 1$, $a_n = 20$ and $S_n = 399$, the	en n is			
(A)	9	(B)	23		
(C)	38	(D)	52		
Q18.	How many terms of the AP: 9, 17, 25, must be taken to give a sum of 636?				
(A)	11	(B)	13		
(C)	12	(D)	14		
Q19.	The sum of the first 40 positive integers d	ivisible	by 6 is?		
(A)	4920	(B)	4209		
(C)	4902	(D)	4290		

Q20.	The sum of the odd numbers between 0 and 50 is?					
(A)	652	(B)	625			
(C)	256	(D)	526			
Q21.	If the sum of first 7 terms of an AP is 49 and that of 17 terms is 289, the sum of first N terms					
	is?					
(A)	2N	(B)	3N			
(C)	N^3	(D)	N^2			
Q22.	In an AP, if $S_n = 3n^2 + 5n$ and $a_k = 164$, then	the va	alue of k is			
(A)	25	(B)	26			
(C)	27	(D)	28			
Q23.	Find the sum of first 17 terms of an AP who	ose 4 th a	and 9 th terms are -15 and -30 respectively			
(A)	501	(B)	105			
(C)	115	(D)	510			
Q24.	If sum of first 6 terms of an AP is 36 and that of the first 16 terms is 256, then the sum of first					
	10 terms will be?					
(A)	200	(B)	100			
(C)	300	(D)	400			
Q25.	The houses of a row are numbered consecu-	tively f	from 1 to 49. If there is a value of x such that			
	the sum of the numbers of the houses preceding the house numbered x is equal to the sum of					
	the numbers of the houses following it. Then the value of x is?.					
(A)	25	(B)	40			
(C)	35	(D)	55			
Q26.	How many multiples of 4 lie between 10 and	nd 250?				
(A)	70	(B)	50			
(C)	65	(D)	60			
Q27.	If the 3 rd and the 9 th terms of an AP are 4 an	d – 8 r	espectively, which term of this AP is zero?			
(A)	7 th	(B)	6 th			
(C)	8 th	(D)	5 th			
Q28.	Which term of the AP: 3, 15, 27, 39, wi	ill be 1	32 more than its 54 th term?			
(A)	a ₆₅	(B)	a ₆₇			
(C)	a ₆₆	(D)	a ₅₆			

Q29.	If the numbers $n-2$, $4n-1$ and $5n+2$ are in AP, then the value of n is			
(A)	3	(B)	4	
(C)	1	(D)	2	
Q30.	Which term of the AP: 53, 48, 43, is the first negative term?			
(A)	T ₁₁	(B)	T_{12}	
(C)	T_{14}	(D)	T_{13}	

ANSWERS

1	(A)	32	2	(D)	28	3	(B)	An AP with $d = 4$
4	(C)	-2, -4, -6, -8	5	(B)	33	6	(A)	0
7	(C)	0	8	(D)	15150	9	(B)	5
10	(A)	3.5	11	(B)	20	12	(C)	8
13	(A)	7	14	(A)	1170	15	(B)	0
16	(A)	330	17	(C)	38	18	(C)	12
19	(A)	4920	20	(B)	625	21	(D)	N^2
22	(C)	27	23	(D)	510	24	(B)	100
25	(C)	35	26	(D)	60	27	(D)	5 th
28	(A)	a ₆₅	29	(C)	1	30	(B)	T_{12}