" VIJAYASREE" - PALAKKAD

First Mid Term Assessment - August 2018

S	td X	MATHEMATICS			Time 1 hr/ Score 20			ore 20
1.	next two terms.							
	5, 12,,							(1)
2.	Is 2018 a term of the arithm	s 2018 a term of the arithmetic sequence 5, 9, 13? Why?					(2)	
3.	If the sum of first 5 terms of an arithmetic sequence is 100 then							
	a) Find the third termb) Find the sum of first a	and fifth terms						(2)
4.	The 13th term of an arithmetic sequence is 54 more than the 4th term.							
	a) What will be the common difference of this sequence?b) Find the difference between th 29th term and the 20th term of this sequence?(2)							(2)
5.	The nth term of an arithmetic sequence is 7n -1							
	a) Find its common diffeb) Write the first termc) Calculate the 10th ter							(3)
6.	 a). Find the sum of consecutive natural numbers from 1 to 30 b). Calculate the sum of first 30 terms of the arithmetic sequence 5, 10, 15 c). Calculate the sum of first 30 terms of the arithmetic sequence 6, 11, 16 							(3)
7.	See the pattern of numbers	3						
	a). Write the next two lindsb). If continued like this, will be there in 12th Ic). Find the last number	how many numbers ine?	1 2 4 7		6 9	1	0	(3)
8.	look at the pattern made us	ind matchsticks						
	\triangle \triangle	7						
	 a). Draw the next figure b). Write the sequence of numbers of sticks used in each figure. c). How many matchsticks will be needed to make the 10th figure of this pattern. d). Write the algebraic form of the sequence of number of matchsticks. (4) 							