	Mn / Sithyvinayakar Hindu College (National School – Mannar) First Term Exam - 2019 Mathematics				
	Grade -9	Index No	Time – 2 Hour 30 Minutes		
		Part - 1			
1	• Answer the a	ll question on this paper it self			
1.	Find the $\frac{1}{3}$ of Ks.2	2400?			
2.	Consider the follo i) Find the comm	wing number series 10, 14,18 non difference?			
	ii) Find the 5 th te	rm?			
3.	Give the 10111 _{two}	, as a decimal number			
4.	Expand and simpl	lify $(x + 2)(x + 3)$			
5.	What is the 25 %	of one hour in minutes?			
6.	Evaluate $5 + 10t$	$-4u \ when \ t = 9, \ u = 5$			
7.	A toy sold to Rs.1	20 to get the loss Rs.20			
	i) Find the purch	asing price by vendor?			
	ii) Find the loss p	percentage?			
8.	Find the value of	a and -	a 60° b		



17 If $\alpha \perp b = 7$ and $\alpha \perp b = 7$. Find the value of $\alpha \leq b \leq 10^{-10}$
17. If $a + b = 7$ and $a - b = 2$, Find the value of $a^2 - b^2$
18. $M = \{ A \text{ triangle has four side } \}$ What is the special name of the set M?
19. Solve the equation $2x - 7 = 5$
20. Consider the distribution
20. Consider the distribution $7, 2, 2, 8, 1, 6, 4$
(7, 2, 2, 8, 1, 0, 4)
I) Find the mode?
ii) Find the median of the above distribution?
ii) This the median of the above distribution?
$20 \times 2 = 40 \text{ Marks}$
Part - II
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iv) Now how many pieces he has and what is weight of each piece?

1 2 2				
b) i) Simplify $\frac{1}{2} + \frac{2}{3}$ of $\frac{3}{5}$				
ii) If $\frac{2}{7}$ of certain amount is Rs.500. Find the certain amount?				
	2 + 2 + 2 + 2 + 2 + 2 = 12 Marks			
02. Roshan purchased 120 pencils at the rate of Rs.2.00 per pencil. He	e marked the price for 72 of them at the			
rate Rs.3.00 per pencil and remaining at the rate of Rs.2.00 per pencil.				
i) Find the purchasing price of pencils?				
ii) What is the selling price of pencils as he thought?				
iii) Does he incur profit or loss?				
my Does he mear pront of 1055.				
iv) Find the profit or lost percentage?				
v) Saman purchased from Roshan all pencil as he thought with	5% discount. Find the his net profit of			
Roshan?				
	2 + 2 + 1 + 2 + 2 = 12 Marka			
	2+3+1+5+5=12 Murks			
03. Length of rectangle ABCD is $(a+5)$ and width $(a-5)$				
i) Find the difference between length and with?	(2+5)			
	(a+3)			
ii) Write perimeter in terms of \mathbf{a} . (a-	5)			
iii) Write algebraic expression for its area?				
,				
iv) Write the simplified form of algebraic expression in question (iii)				
V) It value of $a = 10$. Find the area of ABCD	2+3+2+3+2=12 MArks			

04. a) Price of a pen RS.15 and price of book is Rs.75i) Represent these two prices in binary	
ii) Find the sum of two binaries in binary format?	
iii) Find the difference of the two binaries in binary format?	
iv) Write the highest number in decimal that can be presented by 5 binary digit ?	
b) Find the mean of the distribution 7.5, 2, 6.4, 5.6, 7.5	
2+3+1+3+3	= 12 Marks
05. The general term of a certain number pattern is $7n + 2$ i) Find the first three terms of the number pattern	
ii) Find the common difference	
iii) Find the 20 th and 50 th term of the number pattern	
iv) Which the term is 93 of above number pattern	
v) Find the $(n + 1)^{\text{th}}$ term of the number pattern	
vi) Find the difference between 2018 th and 2019 th term of the above number pattern?	
3+1+2+2+2+2=2	= 12 Marks
06. Find the magnitude of angle represented by x in each of the following figure i) 130 ⁰	
$x > 88^{\circ}$ x 115°	2
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