සියලුම හිමිකම් ඇවරිණි] All Rights Reserved]

(	 බට්ථාල අධාපන කාර්යාලය _ රත්තපර 01
ເມື່ອ ອອກ	visional Education Office - Ratnapura 01
கோ	ட்டக் கல்விக் காரியாலயம் - இரக்கினபரி
	கு பிருக்கு பிரு பிரு பிரு பிரு பிரு பிரு பிரு பிர
©ஞ்&ிக : 09 Grade : 09 வருப்ப : 09	විෂය : ගණිතය Subject : Mathematics ബിடயம் : කාලය : පැය 2 යි මි 30
	Time : 2 hour & 30 mi. Сълъс
dex No	
	Part I
Answer all the questions i	in this paper itself
) Find the profit percentage	gain by selling a child frock worth Rs. 300/= at Rs. 360/=
ath_ath	
.) Find the $8^{in}$ term of the nu	umber pattern for which the general term 5n-2
Convert the following bin	nary number in to a decimal number
10001 two	







Part II				
Answer 5 q	uestions Only			
(1) a) (i)	a) (i) How much is $\frac{4}{5}$ of 3000 rupees?			
(ii)	) Find the value of. $\frac{5}{6} \div (2\frac{2}{3} + 1\frac{1}{2})$			
b) Nim	hal gave $\frac{1}{2}$ of his 12ha land, to his son and $\frac{1}{2}$ of his daughter			
(i) What fraction of the total land was received by son and daughter.		(3 marks)		
(ii)	(ii) Express the remaining portion of the land as a fraction of whole land?			
(iii) Nimal gave <sup>1</sup> / <sub>2</sub> of the remaining portion of the land to his brother. How many hectares his brother.		s received (3 marks)		
(2) General	term of a number pattern is 20-3n			
(i)	Write the first 3 terms			
(ii)	Find the 10 <sup>th</sup> term.			
(iii)	) Which term is equal to 36?			
(ii)	Show that 63 is not a term of this number pattern.			
(3) (i)	Expand and simplify			
(3) (1)	3(a-b) -4 (2a+b)	(3 marks)		
<ul><li>(ii) The figure of a large rectangle which is composed of four sections given below has expand (x+2) (x+1). Fill in the blanks using it.</li></ul>				
	$(x+2)(x+1) = x^{2} + \dots + x+2 = x^{2} + \dots + 2$ $x = x^{2} + \dots + 2$ $1 = 1x = 2$	(3 marks)		
(iii)	Write an expression for the shaded area in the given figure, and find the factors. $a \rightarrow a$			
(iv)	Write the following algebraic expression as a product of factors $4a - 8a^2b - 16ab$	(3 marks)		

- (4) a) A carpenter spends Rs. 9000/= in producing a table. He sells the table to a vender at a profit of 20%. The vender marks the price of the table at a profit of 25%
  - (i) How much does the vender spend to buy the table ?
  - (ii) Find the marked price of the table?
  - (iii) When selling the table, the vender offered a 5% discount to the customer. How much needs to be paid when purchasing the table? (3 marks)
  - b) (i) Write an expression for the perimeter of the given figure.(ii) Simplify the above expression



(3 marks)

(3 marks)

(5) The length, width and height of a fish tank are 80cm, 50cm, 30cm respectively.

- (i) Find the volume of the tank.
- (ii) Express the capacity of the tank in liters.
- (iii) How many times should pour water to fill the above tank by a vessel of 2*l* capacity.



(b)  $1 0 \square 1 0_{two}$  fill in the blanks  $1 0 1_{two}$  $\square 1 \square \square_{two}$ two

