මස්නාහිර පළාත් අධ්පාපන දෙපාර්තමේන්තුව බස්නාහි ඩංග மாகாணக் கல்வித் திணைக்களம் மேல மாக Department Of Education – Western Province De මස්නාහිර පළාත් අධාපාපන දෙපාර්තමේන්තුව බස්නාහි ඩංග மாகாணக் கல்வித் திணைக்களம் Department of Education – Western Province Department of Education – Western Province		ාළාත් අධ්යාපන දෙ බාඛා්න් නිකාක්ෂ Department Of E පළාත් අධ්යාපන දෙ බාඛා්න් නිකාක්ෂ 	දපාර්තමේන්තුව ව බස්නාහිර පළාත් තෙසං ශීයාන් සංකානයේ සංඛාණී නී dducation – Western Province Dep දපාර්තමේන්තුව ව බස්නාහිර පළාත් තෙසං ශීයාන් සංකානයේ සංඛාණී නී dducation – Western Province Dep
පළමු වාර ඇගය முதலாம் தவணைமதிப்ப First Term Evalua	3© ᡗ₲ - 2019 tion		
ලේණිය தரம் } 11 Grade } 11 Subject } Mathematics	ஜேය வினாத்தாள் Paper		வைக் தாலம் Fime
Index Number :			
Signature of Invi	gilator		
Important:	For n Part	narking exar	niner's use only on Marks
• This paper consist of 8 pages	1 urt	numb	er
• Write your index no correctly in the	Α	1-2	5
appropriate place on the page one and page	В	1	
three.		2	
• Answer all questions on this paper itself.		3	
• Use the space provided under each question		4	
for working and writing the answer.		5	
• It is necessary to write relevant steps and		1 Otal	
correct units.			
• Marks will be awarded follows :			
02 marks each for questions $1 - 25$ in part A			
02 marks each for questions $1 - 25$ in part A 10 marks each for questions in part B.			
02 marks each for questions 1 – 25 in part A 10 marks each for questions in part B.			
02 marks each for questions 1 – 25 in part A 10 marks each for questions in part B.			

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3	
07. Kamal gave Rs. 64 000 to monthly simple interest of 2%. C	Calculate the interest Kamal received
after 5 months.	
08. Square root of a number <i>x</i> to the first approximation is 3.1 number to <i>x</i> ?	. What is the nearest perfect square
09 Find the volume of a right circular cylinder with the radi	us 7cm and the height 20cm (The
volume of a cylinder with the radius <i>r</i> and the height <i>h</i> is $\pi r^2 h$)
10. Shade the region $A \cap B$ in the given Venn diagram.	
11. Find the factors. $20 + x - x^2$	
12. According to the information given in the figure, find the	
value of x + y.	
	$\begin{pmatrix} n \\ 60^{\circ} \end{pmatrix}$ $\langle y^{\circ} \rangle$
	·
13. Solve. $1 + \frac{3}{x} = 2$	



21. Information given holess measures the unight of some students to the nearest bill show				
21. Information given below represents the weight of some students to the nearest kilogram.				
32 , 28 , 40 , 33 , 27				
How many students are there who weigh more than the mean weight?				
22. In the circle with the centre O, radius is 5cm and the				
length of AB chord is 6cm. Find OX length.				
AXB				
23. In the given triangle ABC, draw a sketch to represent the A				
parallel to the side BC.				
С				
24. For the Sample space $S = \{ 1, 2, 3, 4, 5, 6, 7, 8 \}$				
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 24. For the Sample space S = { 1, 2, 3, 4, 5, 6, 7, 8} i. Write down a simple event. 				
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 24. For the Sample space S = { 1, 2, 3, 4, 5, 6, 7, 8} i. Write down a simple event. ii. Write down a composite event. 				
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	6 Part B Answer all the questions on this paper itself.				
01.	$\frac{5}{8}$ of the capacity of a certain oil tank is filled with oil. Due to a leak in its tap, $\frac{1}{5}$ of the oil in it got wasted during a day. (i) What fraction of the whole tank was empty at the beginning?				
	(ii) What fraction of the oil in the whole tank got wasted during a day?				
	(iii) At the end of the day, if 100 liters of oil was remaining in the tank, what is the capacity of the tank?				
	(iv) If one liter of oil costs Rs. 150, find the value of the oil that got wasted.				
02.	The information collected about the lunch preferred by 120 people who were participated for a certain gathering is given in the following incomplete table and the pie chart.				

Type of food	No of people
meat	50
fish	
egg	
vegetable	



(i) Fill in the blanks in the table.

- (ii) What is the angle of the centre of the sector which represent the people who ate meat?
- (iii) If all the people who preferred egg ate vegetables and all the people who preferred fish ate meat, find the ratio between the number of people who ate vegetables and the number of people who ate meat.

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03. A person who decided to travel from his car, went to a petrol shed and pumped 60 liters of petrol into his car within 60 seconds through a pump before starting his journey.
(i) Find the rate at which petrol flows out of the pump.

The distance time graph of his motion is given below.

- (ii) Find the total distance of his journey.
- (iii) Find the average speed of the journey.
- (iv) Find the speed of the BC part of his journey.
- (v) If he maintains the speed at BC part throughout the journey, find the time takes for the whole journey.



- 04. (a) If Amitha paid Rs. 7 200 of value added tax, when buying a refrigerator worth Rs. 72 000,(i) What is the value of the refrigerator after paying the tax?
 - (ii) What is the percentage of tax charged?
 - (b) First Rs. 500 000 of a person's annual income is tax free. A tax of 4% is charged for the next Rs. 500 000 and a tax of 8% is charged for the balanced income.
 - His annual income is Rs.1 075 000.
 - (i) Find the tax to be paid as 4%.
 - (ii) Find the tax to be paid as 8%.
 - (iii) Find the total income tax to be paid.

05. (a) Namal and Nimal go to the public library once every weekday. Given grid shows all the possible ways that they can go to the library during the following week.

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- (i) Represent the sample space of the event, Nimal and Namal going to the library during weekdays.
- (ii) Find the probability that Nimal going to the library on Wednesday.
- (iii) Find the probability that both of them going to the library on the same day.
- (iv) Find the probability that at least one of them going to the library on Wednesday.
- (v) Find the probability that Namal going to the library before Nimal.