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6

2<sup>nd</sup> Term Test - 2018  
Mathematics

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අනුලත්විම අංකය : .....

Time : 2 Hrs

**Part I**

- Answer all questions in the paper itself.

01. In the number 3645, What is the value represented by 6?

02. Express 0.25 as a fraction in the simplest form.

03. If the cost of 10 string hoppers is Rs. 35, Find the cost 100 string hoppers?

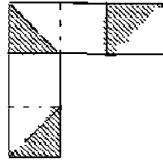
04. Write down all the integers between -2 and 1.

05. Select and encircle the numbers which are divisible by both 2 and 5 without any remainder. from the following box

2002	700
405	
300	502

06. Write down an equivalent fraction to  $\frac{3}{8}$

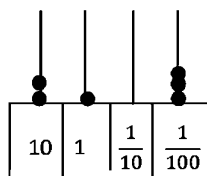
07. Express the coloured part as a fraction of whole figure



08. Express 150 minutes in hours and minutes.

09. Daily income of a labourer is Rs. 12 000. Find the daily income of such 100 labourers.

10. Write down the number represented by the following abacus.



11. Write down the number 20002002 in words.

12. Find the distance that a motor bike of speed 60 kilometers per hour travels within  $\frac{1}{2}$  hour .

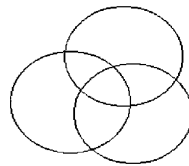
13. If  $\frac{1}{3}$  of mango heap is 15 mangoes, find the total number of mangoes in the mango heap.

14. The express train which was arrived to the 1st platform will depart from the station to Colombo fort station at 21:20 Write down the departure time in 12 hour clock.

15. Rs. 450 is needed to give a gift for a student. Find the total cost needed to give gifts for 35 students.

16. If a square shape is made by bending a wire of length 36cm, find the length of a side of that square.

17. Colour the common area for all three circles.



18. Compare the following fractions by using the symbols  $<$  or  $>$ .

$$\frac{1}{10} \dots\dots\dots \frac{1}{100}$$

19. Write down the smallest number which is a multiple of both 3 and 4.

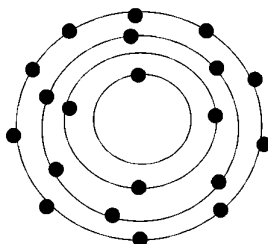
20. When a certain number is divisible by 30, 20 is remained. Find the remainder after that number is divided by 15.

## Part II

- Answer I<sup>st</sup> question and any other 4 questions on this paper itself.

01.

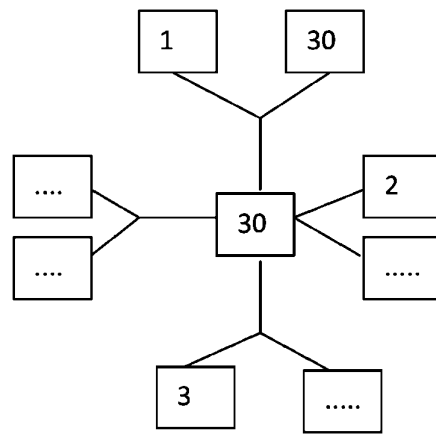
a) The following figure shows the first four circles of a certain pattern which is created by using bulbs and 10 wire circles.



There are 10 circles in this creation such that one bulb is in the first circle, 3 bulbs in the 2<sup>nd</sup> circle and so on.

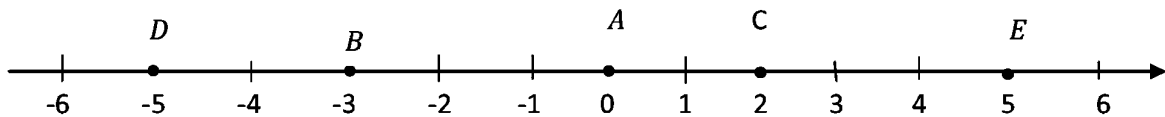
- Write down the number of bulbs in first five wire circles respectively. (2 marks)
  - Write down a name for this number pattern. (1 mark)
  - Find the number of bulbs in 10th wire circle of this creation. (3 marks)
  - If a new pattern is created by adding bulbs of two consecutive wire circles, Write down the bulb pattern of it and write down a name for it. (3 marks)
- b) i. Upul has 30 Olives (Veralu) can it be divided among 8 friends equally? Give reasons. (2 marks)

- ii. Fill in the blank cages to find all the factors of 30. (4 marks)



- iii. According to the above diagram write down the all factors of 30 (I mark)

02. Profits and loss were received by 5 venders of A, B, C, D and E in a daily business is marked in the following number line.

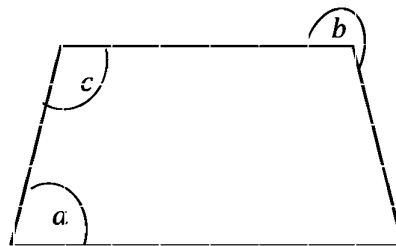


- i. Who received a profit? (2 marks)
- ii. Who did not received any profit or a loss? (I mark)
- iii. Who gained a biggest lost? (I mark)
- iv. Put the symbols  $>$  or  $<$  in the blank spaces (2 marks)
- A.....B
- D.....E

b. Ganesh starts walking from the flag pole A which is in the infrant of his class and walks 10m towards East and reaches point B. Then from B he walks another 10m towards South and reaches to point C.

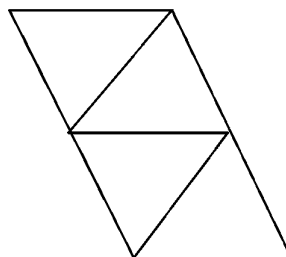
- i. Draw a rough diagram to show his path. (2 marks)
- ii. In which direction can Ganesh see the flag pole A from the point C. (1 mark)
- iii. Write a example for a horizontal plane and a vertical plane that you can see in your classroom. (2 marks)

03. a) i. Draw a rectilinear closed plane figure and name it. (2 marks)
- ii. Write a special name to represent the following plane figure. (1 mark)



- iii. Name the angles which are in the above figure. (3 marks)
- a -
- b -
- c -

- b) i. Write the name of the solid which can be made by using the following net (1 mark)



- ii. In the above solid, write down
- a-Shape of a face .....
- b-the number of faces.....
- c-the number of vertices.....
- I. d-the number of edges..... (4 marks)

04. a) Akila spent  $\frac{3}{8}$  for food and  $\frac{1}{4}$  for clothes from his money.

I. What is the total amount that spent for food and cloths as a fraction of his total money. (3 marks)

II. What is the remaining amount after spending for food and clothes as a fraction of his total money. (2 marks)

III. For what purpose did Akila spend the largest amount from his money. Give reasons. (3 marks)

(b) i. Write down the following decimals in ascending order. (2 marks)

0.5, 0.29, 0. 52, 0.06

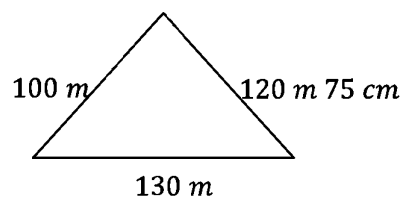
ii. Add,  $15.2 + 1. 32$  (2 marks)

05. a) Two cities A and B are situated apart from 7km 800m and 10km 500m to Madawa's house respectively.

i. Write down the closest city to the Madawa's house. (1 mark)

ii. Find the difference between the distances from Madawa's house to A and B cities. (2 marks)

iii. The following figure shows a plan of a triangular park. Find the total distance when walking around the park in 3 times. (3 marks)



- b) i. A tank is fully with water. The capacity of this tank is  $500l$ . When  $275\ l\ 800ml$  is used from it, Find the quantity of water remaining in the tank. (2 marks)
- ii. The following table shows different types of vessels which are used to measure  $1l\ 500\ ml$ . Write the number of times the measuring vessel needs to be used. (2 marks)

Quantity	Size of the vessel used to measure the quantity	Number of times the measuring vessel needs to be used
$1l\ 500ml$	$100ml$	.....
$1l\ 500ml$	$250m$	.....

06. a)i. Write down the difference between a prime number and a composite number. (1 mark)
- ii. Separate the numbers in following box as prime numbers and composite numbers. (2 marks)

3	5	11	4
6	9	7	12
1	2	10	8

prime numbers



composite numbers

- iii. When the value of the mark that Saduni received for mathematics is , rounded off to the nearest 10, it is 80 . Write down the maximum and minimum value that can be taken for sanuni's mark.  
 minimum value .....  
 maximum value ..... (2 marks)

- iv. A farmer kept  $300kg$  of rice for his consumption out of his harvest of  $2000kg$  and sold the rest, as  $1kg$  at Rs. 40. What is the total income he received by selling rice? (3 marks)

- b) i. Write your birthday in International standard form. (1 mark)
- ii. Sunil took 5 hours and 40 minutes in first day and 2 hours and 35 minutes in second day to complete a certain task. Find the total time taken by Sunil to complete the task.(2 marks)