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**Sri Sumangala College - Panadura**

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**1<sup>st</sup> Term Test - March 2020**

ශ්‍රේණිය } 11 <b>Grade</b> }	විෂයය } <b>Subject</b> }	ගණිතය	පත්‍රය } <b>Paper</b> }	I	කාලය } <b>Time</b> }	02 hour
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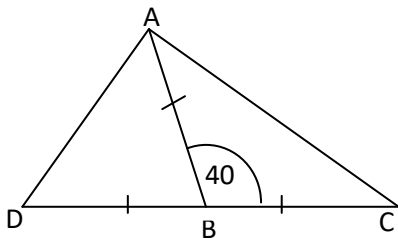
- Answer all questions on this paper itself
- Each question carries two marks

**Part A**

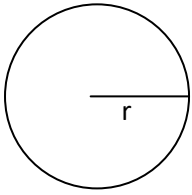
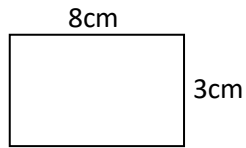
1) 5% VAT is charged for a bill of Rs:5000/= ,Calculate the VAT

2) Factorize  $2X^2 + 3X - 20$

3) Find the value of  $\hat{C}\hat{A}D$ , If  $AB=BC$  and  $\hat{A}B\hat{C} = 40^\circ$

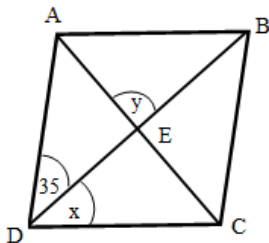


4) Find the radius of a circle. (Hint:- Perimeter of rectangle and circumference of a circle is equal.)



5) Solve  $2X - 1 \geq 3$

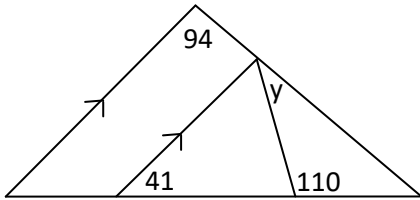
6) ABCD is a Rhombus. Find the value of X and Y



7) Find the value of 'X',  
 $4^X \times 2^X = 2$

8) 3 women take 6 days to pluck tea leaves. If 1 woman is absent, then how many extra days they will take to do it?

9) Find the magnitude of Y

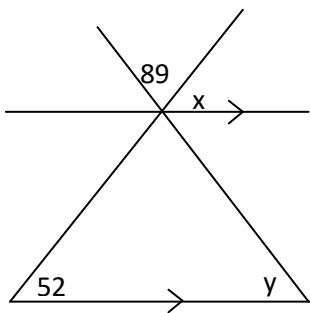


10) Find the value of  $\int g 6$  if  $\int g 2 = 0.3010$  and  $\int g 3 = 0.4771$

11) Make "B" the subject of the formula  $C = \frac{3b^2 - 2a}{5}$

12) Simplify  $\frac{4}{5a} + \frac{3}{2a}$

13) Find the value of X and Y



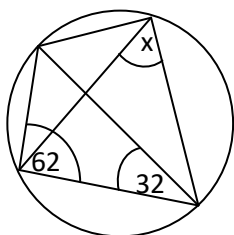
14) Find the gradient of the straight line satisfies the points (3,2) and (-1,0)

15) Select and underline which are irrational numbers

$0.2$ ,  $\sqrt{2}$ ,  $\pi$ ,  $\frac{1}{3}$ ,  $\sqrt[3]{6}$

16) Find the value ;  $\log_2(1/32)$

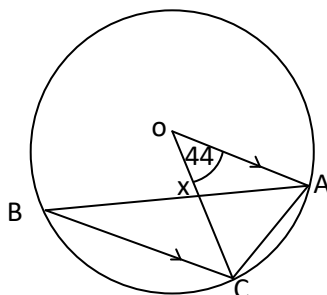
17) Find the value of X



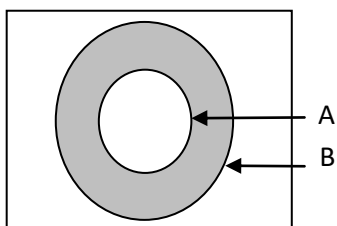
18) Simplify  $\frac{6}{x+1} = \frac{5}{x-3}$

19) Find the distance that a car which travels at a uniform speed of  $84 \text{ Km h}^{-1}$ , covers in 5 minutes.

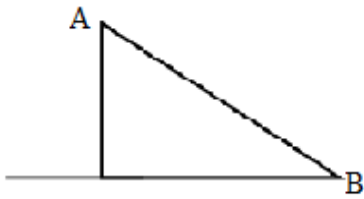
20) Find the value of  $\widehat{AXC}$



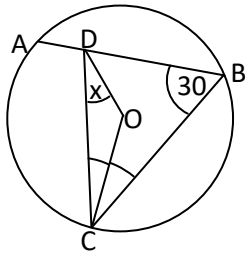
21) Express the shaded region in set notation.



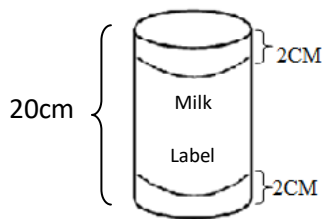
22) A lifeguard is looking down at a swimmer in a swimming pool. His line of sight forms a  $35^\circ$  angle of depression. Illustrate the information on the given diagram.



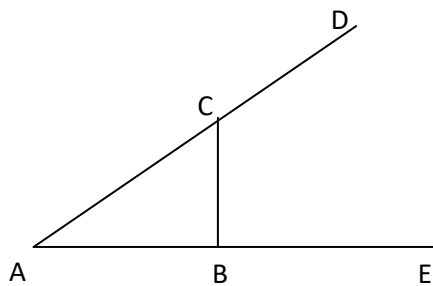
23) Find the value of X (Hint:- angle bisector of  $\widehat{BCD}$  is CO)



24) Find the surface Area of a milk can.



25)



Find the point of "X" who equal distance from DC, CB and BE

### Part B

➤ Answer all the questions on this paper it self.

1) Shirts brought for sale in a shop, out of them  $\frac{1}{9}$  black shirts.  $\frac{3}{16}$  Of the remainder white shirts. The remaining is blue shirts

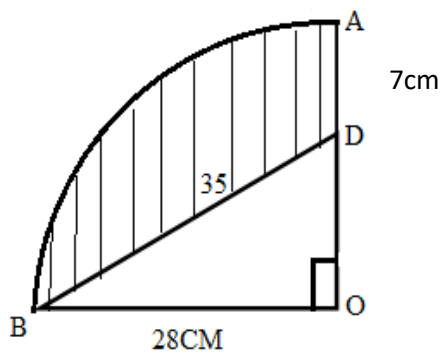
I) Give the fraction of the white shirts.

II) What is the fraction of the black and white shirts.

III) Out of the blue shirts,  $\frac{5}{13}$  of remainder is long slaves shirts. Number of long shirts are 65. Then fined the number of black shirts ?

2)

I) Find the length of OD ?



II) Find the area of triangle BOD

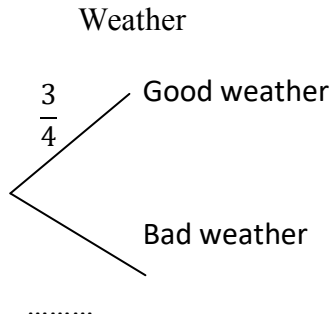
III) Find the area of shaded region.

IV) Find the length of BD

V) Find the perimeter of shaded area.

3)

I) Mark the probabilities of the following tree diagram.



II) Find the number of days you can expect to have a good weather in 60 day school term?

III)

- ❖ Sadali has  $\frac{1}{10}$  Probability of arriving late to school on a good weather day.
- ❖ Sadali has  $\frac{1}{3}$  Probability of arriving late to school on a bad weather day.

Extend the above tree diagram to express the above information

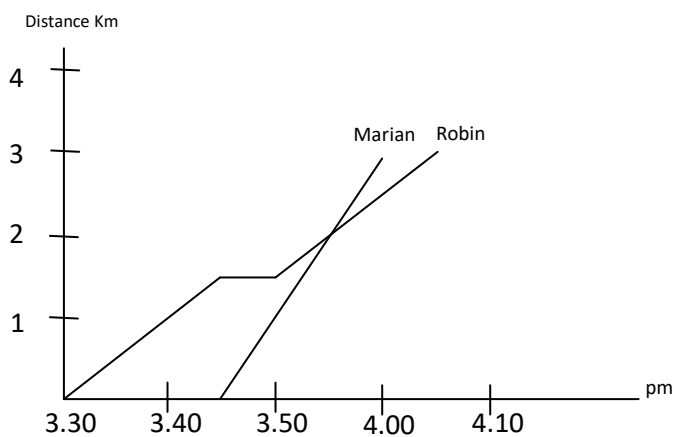
IV) Find the probability that Sadali will be late for school on a bad weather day?

VI) Find the probability that Sadali is not late for school.

4)

- After leaving school at 3.30pm Robin stopped to talk to a friend on the way home.
- His sister Marian leaving school at 3.45pm arrived home on the same road.

The motion of a robin and Marion is given on the distance time graph.



I) Find the distance travelled from Robin in first 10 minutes?

II) Find the time take to Robin talk to a friend?

III) Find the distance from school to their home?

IV) Find the time did it take Marian to go home?

V) Calculate the Marian's speed?

5) The pie chart giving bellow illustrate the information gathered from the members of a sport club regarding the sport the like most.

- Rugby and football are half the total members.

I) Find the angle of the sector represents Badminton?

II) Estimate the members those who likes Rugby as a Fraction of the total members.

III) Total members of the sport club is 240 Fined the members who like the football?

