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முழுப் பதிப்புரிமையுடையது

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 மேல் மாகாணக் கல்வித் திணைக்களம்
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ஆண்டிறுதி மதிப்பீடு

- 2019

Year End Evaluation

ශ්‍රේණිය } 09
 தரம் }
 Grade }

විෂයය }
 பாடம் } Mathematics
 Subject }

පත්‍රය }
 வினாத்தாள் } I, II
 Paper }

කාලය } 02 Hours
 காலம் }
 Time }

Name:

Index No :

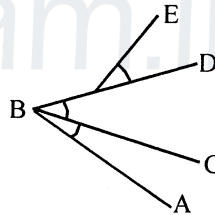
Part I

- Answer all the questions on this paper itself.
- Each question carries 02 marks.

(1) Find the 8th term of a number pattern where the general term is $T_n = 2n - 5$.

(2) Convert the binary number 1010_{two} in to base ten.

(3) Name a pair of adjacent angles shown in the figure.



(4) Using the knowledge of factors, find the value.

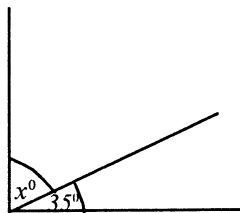
$$102.5^2 - 2.5^2$$

(5) If a vender has to incur a loss of 25% when selling a wrist watch for Rs 900, find the buying price of it.

(6) Solve. $\frac{y - 5}{2} = 3$

(7) Simplify $\frac{6}{7}$ of $\frac{2}{3}$

(8) If the figure shows a pair of complementary angles, find the value of x .

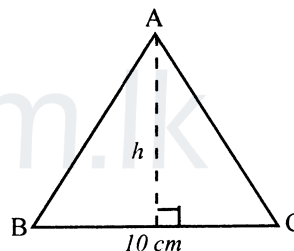


(9) Express 1.5 cubic meters in liters.

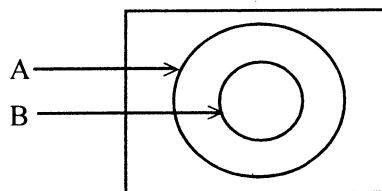
(10) Round off to the nearest first decimal place. 200.85

(11) What is the size of the class intervals (10 - 19) and (20 - 29)?

(12) Area of the ABC triangle is 25 cm^2 .
Find the value of the perpendicular height ' h ' of it.



(13) Shade the region $A \cap B$ in the given Venn diagram.

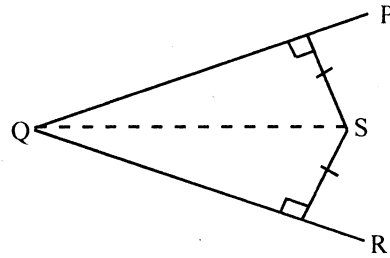


(14) Make ' b ' the subject of the formula $a = \frac{bx}{c-d}$

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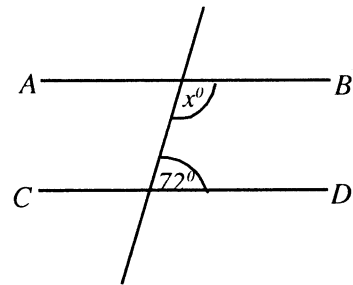
(15) Write the equation of the straight line where the gradient is $\frac{2}{3}$ and the intercept is -1.

- (16) If the perpendicular distance from S to PQ and QR are equal, write the relationship between \hat{PQS} and \hat{RQS} .

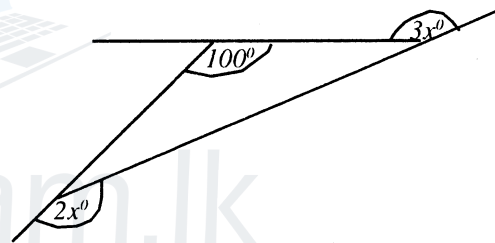


- (17) Area of the base of a cuboid shaped container is 25cm^2 . If the capacity of it is 200 ml , find the height of it.

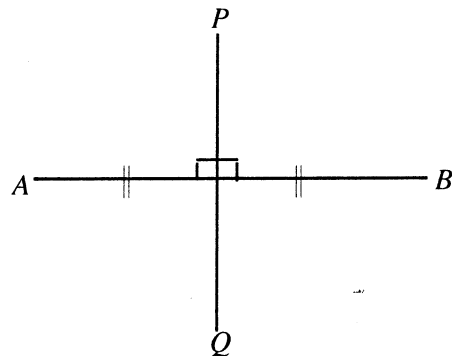
- (18) What should be the value of the angle x , in order to make the two straight lines AB and CD parallel?



- (19) According to the information given in the figure, find the value of x .



- (20) Locus of a moving point equidistant to the two points A and B is shown by PQ. What is the geometrical name of it?

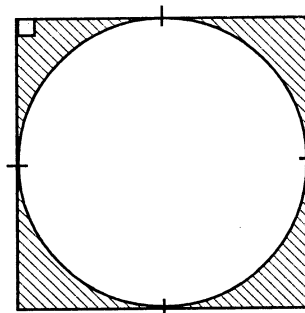


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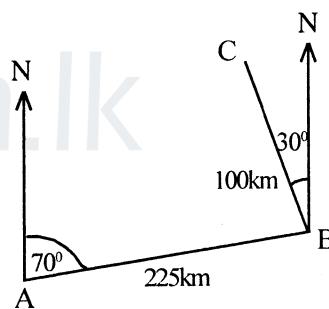
Part II

- Answer the first question and another 04 questions only.
- First question carries 16 marks and other questions carry 11 marks each.

- (1) (a) Answer the following questions given regarding the activity, "finding the area of a circle" that you have done in the lesson, "Area of the plane figures"
- (i) Draw the initial plane figure that you have used for the activity.
 - (ii) Name the plane figure that you made by cutting the initial plane figure into sectors.
 - (iii) What is the conclusion that you have arrived regarding the areas of two plane figures?
 - (iv) Write down the formula that you have obtained for the area of a circle, in terms of π and r .
 - (v) Using the formula, find the area of a circle with radius 7 cm. (Take $\pi = \frac{22}{7}$)
 - (vi) A circle is situated inside a square with the area 196cm^2 , as shown in the figure.
 - (a) What is the radius of the circle?
 - (b) Find the area of the shaded region in the figure.



- (b) According to the given sketch, find the following.
- (i) Bearing of B from A.
 - (ii) Bearing of C from B.
 - (iii) If 50km of the actual length is represented by 1 cm in the scale diagram, write down the length of AB and BC in the scale diagram.



- (2) An incomplete table of values prepared to draw the graph of the function $y = -3x + 1$ is given below.

x	-2	-1	0	1	2
y	4	1	-5

- (i) Fill in the blanks in the table.
- (ii) Draw the graph of the function in the a suitable cartesian plane.
- (iii) Draw the straight line $y = 4$ on the same cartesian plane.
- (iv) Write the coordinates of the point where the function and $y = 4$ line intersect.
- (v) Draw a straight line parallel to $y = -3x + 1$ and the intercept - 2 on the same cartesian plane.

- (3) (a) (i) Express $\frac{25}{8}$ as a mixed number.
- (ii) Simplify $\frac{2}{3} \times \left(\frac{4}{5} + \frac{1}{2}\right)$ and express the answer in its simplest form.
- (b) A father gave $\frac{1}{4}$ of his land to his son and he sold $\frac{1}{2}$ of the remaining for Rs. 300 000.
- (i) What fraction of the land is remaining after giving to son?
- (ii) What fraction of the whole land is sold?
- (iii) Find the value of the whole land.

- (4) Using only the straight edge and the pair of compasses do the following constructions in a single diagram. Show the construction lines clearly.
- (i) Draw the AB straight line where $AB = 7\text{cm}$.
- (ii) Construct \hat{BAC} such that $\hat{BAC} = 60^\circ$.
- (iii) Locate the point C where $AC = 5\text{ cm}$ and complete the triangle ABC. Measure and write BC length.
- (iv) Construct the angle bisector of \hat{BAC} .
- (v) Construct the locus of a moving point equidistant to the points A and B.
- (vi) Name the intersection point of above (iv) and (v) loci as X.

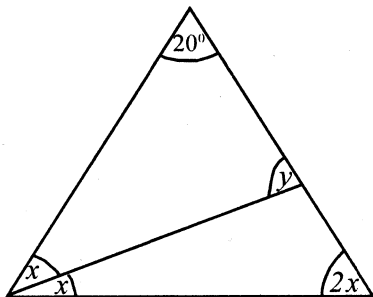
- (5) (a) (i) Simplify and express the answer in its simplest form.

$$\frac{2y}{5} + \frac{y}{10}$$

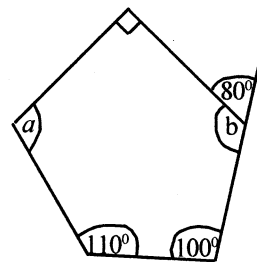
- (ii) Expand and simplify. $(a + 3)(a - 1)$

- (b) A student bought 3 pencils and 2 pens for Rs. 66. from the school book shop. Shop owner said that the different between 3 pencils and 2 pens is Rs. 6.
- (i) By taking the price of a pencil as Rs. x and the price of a pen as Rs. y , build up a pair of simultaneous equations.
- (ii) By solving the two equations find the price of a pencil and pen separately.

- (6) (a) According to the information given in the diagrams, find the magnitudes of angles marked in English letters.

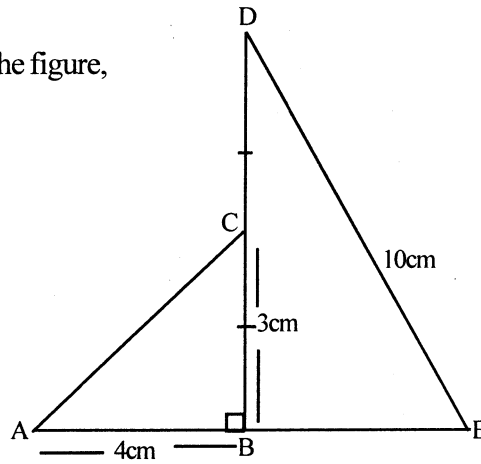


- (i) Find x and y



- (ii) Find a and b

- (b) According to the information given in the figure,
 (i) Calculate AC length
 (ii) Calculate BE length

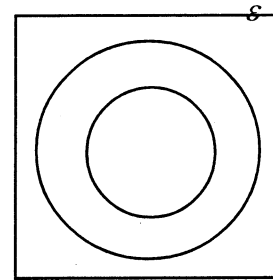


- (7) (a) Copy the given Venn diagram in your answer sheet and include the given data in it.

$$\varepsilon = \{ 1, 2, 3, 4, 5, 6, 7, 8, 9 \}$$

$$A = \{ 4, 6, 8, 9 \}$$

$$B = \{ 4, 8 \}$$



- (b) In a bag there are 4 red balls, 3 blue balls and 5 green balls with same size and shape. A ball is taken randomly from the bag.
 (i) Find the probability of getting a blue ball.
 (ii) Find the probability of not getting a red ball.
- (c) Marks obtained by 188 students in the grade 9 section of a certain school is given below.

Marks (class interval)	Number of students (frequency)
0 - 8	15
9 - 17	18
18 - 26	20
27 - 35	40
36 - 44	41
45 - 53	30
54 - 62	24
	188

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- (i) Find the range of the distribution.
 (ii) Find the modal class of the distribution.
 (iii) Find the median class of the distribution.