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- 22) Simplify : $2 \lg 5 + 2 \lg 3 \lg 2$
- 23) Write the equation of the straight line which parallel to y = 2x + 3 and passes through the point (0,2).
- 24) Make *x* the subject of the formula lx + my = n
- 25) If the mean of the given distribution is 17. Find the value of x14, 15, x, x + 1, 19, 21.

25x2 = 50



Part - IB

01) a) Simplify: $\left(\frac{1}{2} + \frac{1}{3}\right) \div \frac{1}{6}$

- b) A person travelled $\frac{2}{5}$ of his journey by walk and $\frac{2}{3}$ of remaining by bus and the rest distance by three wheeler.
 - i) What fraction of the whole distance is remaining after walking.
 - ii) What fraction of the whole distance is travelled by bus.
 - iii) If the travels $1.2 \ km$ by three wheeler, find the total distance of his journey.

02)



(3+2+2+3)

04) The pie chart given here shows the information about favorite subjects of grade 10 students.



- a) Which subject likes most number of students?
- b) Find the magnitude of the angle represents the students like English.
- c) If 55 students like Science, Find the number of students likes Tamil.
- d) Find the total number of students in the class.
- e) How many more students is the number of students like Science than number of students like Maths. (1+2+3+2+2)

05) Education Foot ball (F) Volley ball (V) අධ්යාපන

The Venn diagram given here shows the information about the prefer games of 50 grades 10 students in a certain School.

If the number of students play foot ball is 35 and the number of students play foot ball only is 10.

- i) How many students play volley ball?
- ii) How many students do not play at least one of the two games
- iii) The set represents the students play foot ball as F, and volley ball as V, write the relationship between the two sets in set notations.
- iv) Shade the set region $(F \cap V^1)$

Part - II

* Answer Only Five Questions.

- 06) a) The annual value of Kumar's house is Rs. 50000. Kumar gave his house to Ravi for rent at Rs.
 4000 per month. He spent 10% of the money gained from the rent in one year to the maintenance of the house and paid 8% of the annual value as assessment tax of the house.
 - i) How much money gained as rent for one year.
 - ii) Find the amount of money paid as assessment tax.
 - iii) Find the amount of money he spent for the maintenance of the house.
 - iv) How much is the balance.
 - b) The value of a camera is Rs. 20000. If Rs. 8000 is paid as duty, when the camera is imported. Find the rate percent charged as duty?

(2+4+4+6+4)

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07) An incomplete table to draw the graph of the function $y = x^2 - 4$ is given below.

x	-3	-2	-1	0	1	2	3
у	5	0	-3		••••	0	5

a) i) Fill in the blanks.

ii) Taking 10 small divisions as 1 unit along to both x axis and y axis as scale and draw the graph of the function on graph sheet.

b) Using your graph

- i) Write the co-ordinates of the turning point
- ii) Find the values of x when y = 0
- iii) Find the roots of the equation $x^2 4 = 0$
- iv) Find the values of x when y = 1 and hence find the value of $\sqrt{5}$.



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