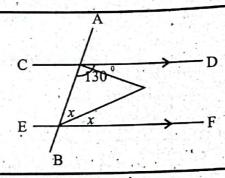
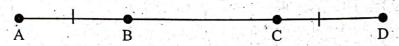


11. How many $\frac{2}{3}$ m long pieces can be cut from a 6m long wire?

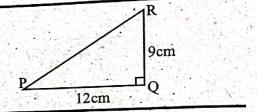
12. Find the value of x



, 13. If AB = CD Show that AC = BD

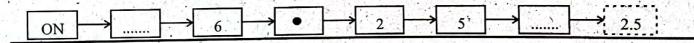


14. Find the length of the side PR

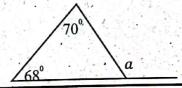


15. Find the factors of $25m^2 - n^2$

16. Fill in the blanks with suitable key values, to obtain the value $\sqrt{6.25}$ using the scientific calculator.



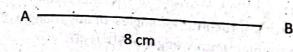
17. Find the value of a



18. The price of 5 bottles of honey is Rs.6000. What is the price of 7 such bottles of honey?

19. Factorize. $x^2 + 5x - 24$

20. Draw a locus of a point equidistant from A and B in the figure. Name it as XY.



*	Answer	5	questions	only.
				CITIA.

Each question carries 12 marks.

01.	(a) In a drill show	, the students in eac	h row are arrange	ed in a nattern	of numbers 7	10 13	16

:1	E' 1.1	
9	Find the common difference of this pattern.	(1 mark)

Write the number of students in the next two rows of the pattern using the common term

(2 marks)

- iii) Write the general term using common difference, (2 marks)
- iv) Find the number of students in the 12th row. (2 marks)
- v) Which row has 52 students? (2 marks)
- (b) When two times of b and another 5 is added to the a is equal to c
- (1 mark) Construct a formula including a, b and c
- (2 marks) ii) Make b subject of the formula
- 02. (a) A computer was imported for 300 American Dollars. One American Dollar is Rs. 350. The price of the computer has been marked keeping a profit of 20%. The computer is sold by giving discount of 10% on the marked price.
 - (2 marks) i) How much rupees were spent for import the computer? . (2 marks) ii) What is the marked price?
 - iii) What is the selling price of the computer after giving the discount? (3 marks)
 - (3 marks) iv) Find the profit percentage.
- (b) If a broker charged 5% for selling a motor car. Find the commission charged for a car sold for Rs. 3 000 000

(2 marks)

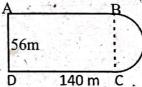
03. (a) Simplify.
$$\left(\frac{1}{4} + \frac{4}{5}\right) \div 2\frac{4}{5}$$

(3 marks)

- (b) $\frac{5}{9}$ of a tank is filled with water. In the second time $\frac{2}{3}$ of the remaining part filled again with water.
 - i) Find the empty part after initial filling as a fraction of the whole tank? (2 marks)
 - ii) Find the part filled in the second time as a fraction of the whole tank? (2 marks) (2 marks)
 - iii) Find the empty portion after the second filling as a fraction of the whole tank?
 - iv) If 2100l of water i in the tank after the second filling, how much more water is required to fill the (3 marks) tank completely?

04. The figure shows a garden which consist with rectangular portion and semicircular portion.

- i) What is the radius of the semicircular portion? (1 mark)
- ii) If the flag poles are planted along the boundary CD which is faced to the main road at intervals of 2m, find the number (2 marks) of flag poles required.



- Find the arc length of the semicircular part. (3 marks) iii)
- It is needed to construct a fence using 4 barbed wires. If one metre of barbed wire costs Rs. 25, find the total cost for barbed wires. (3 marks)

v) A right-angled triangular piece of land is intended to grow grass. It is with one edge AD and the other side lying on the extended CD and area is equal to $\frac{1}{4}$ of the area of the rectangle ABCD. Draw that right-angled triangle with the measurements.

05. A table prepared to draw the graph of the function y = 3x + 1 is given below.

x	-2	-1	0 -	1	. 2	3
У	-5		10	4		10

i) Write the gradient and intercept of the graph.

(2 marks)

ii) Find y values if x = -1 and x = 2

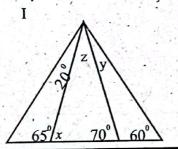
(2 marks)

iii) Draw the graph of the above function using a suitable coordinate plane.

(4 marks)

iv) Write the coordinates of the point where the graph intersect the y axis.

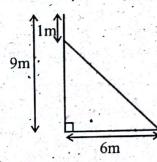
- (.2 marks)
- v) Write the equation of the graph which is parallel to the above graph and which passes through the origin. (2 marks)
- 06. (a) $A \xrightarrow{B/50^{\circ}} C$ $D \xrightarrow{E} G$
- i) Name a pair of alternate angles (1 mark)
- ii) Name a pair of allied angles
- (1 mark)
- iii) Which type of angles are ABH and DEB
- · (1 mark)
- iv) Find the values a and b by giving reasons.
- (4 marks)



(b)

- Find the values x, y, z by giving reasons.
- (2+3 marks

07. (a) A wire tied to a point 1m below of the top of the 9m height pole and the other end is tied to a point 6m away from the base of the pole. (as the diagram)



- i) What is the height from the ground where the wire is tied to the pole? (1 mark)
- ii) Find the length of the wire (neglect the knotted part of the wire)
- (3 marks.)

(b) i) Construct a triangle ABC where AB= 5 cm, BC = AC = 6.5 cm

(3 marks)

ii) Construct angle bisector of CÂB and CBA and name the point of intersect as P.

(2 marks)

' iii) Construct perpendicular to AB from P

(2 marks)

iv) Name the point Q where it meets AB and measure the length of QA

(1 mark)



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