

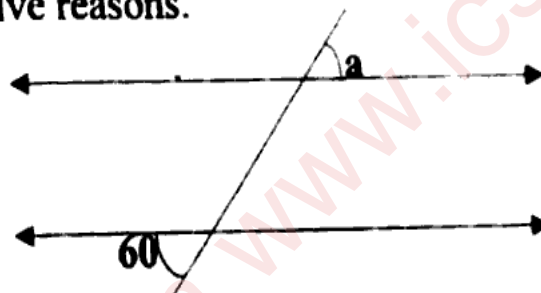
TIME : 40 MIN.

MATHEMATICS

MARKS 20

**PART - A** (Answer all the questions)

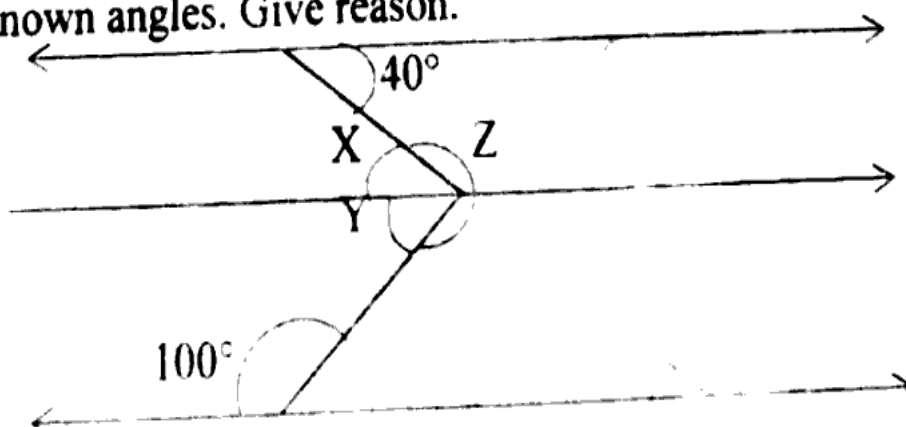
- [Q.1] Express {1, 4, 9, 16, 25, 36} in Rule method. [1]
- [Q.2] Two straight lines are said to be \_\_\_\_\_, if they do not meet anywhere, no matter how long they are produced in any direction. [1]
- [Q.3] If the angles of a triangle are equal, find its angles. [1]
- [Q.4]  $\Delta PQR$  is right-angled at vertex P. Calculate the length of side QR, if PQ = 8 cm & PR = 6 cm. [1]
- [Q.5] Write all the symbolic representation of Null set. [1]
- [Q.6] In the given figure, the directed lines are parallel each other. Find the unknown angles. Give reasons. [2]



- [Q.7] One angle of a triangle is  $27^\circ$  & other two angles are in the ratio  $1\frac{1}{2} : 1\frac{1}{3}$ . Find the angles. [2]
- [Q.8] Show that the  $\Delta ABC$  is a right-angled triangle; If AB = 20 cm, BC = 25 cm & AC = 15 cm. [2]

**PART - B** (Answer all the questions)

- [Q.9](a) Find all the proper subsets of  $\{\phi\}$  [1]
- (b) In the given figure, the directed lines are parallel to each other. Find the unknown angles. Give reason. [2]



[Q.10](a) The angle of vertex of an isosceles triangle is  $120^\circ$ . Find its base angle.

(b) A boy first goes 9 m due North and then 12 m due East. Find the distance between the initial and the final positions of the boy. [2]

[Q.11](a) State True or False, if False correct the False statement. "An equilateral triangle is always an isosceles triangle". [1]

(b) If  $A = \{1, 2, 3, 4\}$ ,  $B = \{2, 3, 5\}$ , verify that [2]  
 $n(A \cup B) + n(A \cap B) = n(A) + n(B)$

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