

Student Name -

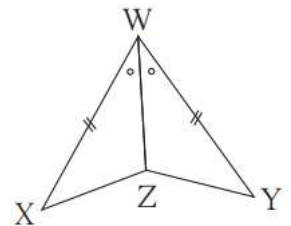
Que 1 Choose the correct alternative answer for each of the following questions. [Marks – 4]

- 1) Which of the following is the set of natural numbers ?
 A) {...-2, -1, 0, 1, 2...} B) {-1, -2, -3, ...} C) {0, 1, 2, 3, ...} D) {1, 2, 3, ...}
- 2) Out of the following, which percentage is 2:5 in the reduced form?
 A) 20% B) 40% C) 50% D) 70%
- 3) Find d(A,B), if co-ordinates of A and B are 4 and 7 respectively.
 A) -11 B) 11 C) -3 D) 3
- 4) What is the length of longest chord of a circle with radius 2.3cm?
 A) 3.2 cm B) 4.3 cm C) 4.6 cm D) 6.4 cm

Que 2 Solve the following sub questions.

[Marks – 5]

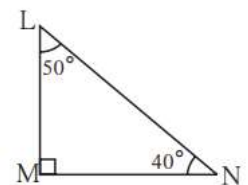
- 1) Write the rational number $\frac{9}{11}$ in decimal form.
- 2) Find the mean proportional of 4 and 25.
- 3) State the test by which the triangles in the adjacent figures are congruent.
- 4) Point M is midpoint of seg AB. If AB = 13 then find the length of AM.
- 5) In ΔABC , if $\angle A = 35^\circ$ and $\angle B = 85^\circ$ then find $\angle C$.



Que 3 Solve the following sub questions.

[Marks – 10]

- 1) Simplify. $4\sqrt{2} + \sqrt{18} - \sqrt{50}$
- 2) Factorise. $m^2 - 7m + 12$
- 3) In right angled ΔLMN , $\angle LMN = 90^\circ$, $\angle L = 50^\circ$ and $\angle N = 40^\circ$. Write the following ratios. (i) $\sin 40^\circ$ (ii) $\tan 50^\circ$
- 4) Draw seg AB of length 5.5 cm and bisect it.
- 5) If adjacent sides of a rectangle are 7cm and 24cm, find the length of it's diagonal.



Que 4 Solve the following questions. [Marks – 6]

- 1) Solve the following simultaneous equations.
 $3x + 2y = 11$, $2x - y = 5$
- 2) With the help of adjacent figure, write answers of following questions.
 - i) Write the co-ordinates of the points P and M.
 - ii) Which point lies in the second quadrant?
 - iii) Which are the points whose y co-ordinate is equal?

