

PRISM WORLD

Std.: 10 (English)

Maths - II

Date:

Time: 1 hrs

Chapter: 4

Q.1 Choose the carrect alternatives.

(3)

- 1) The maximum number of tangents that can be drawn to a circle from a point out side it is
 - a. 2
- b. 1
- c. one and only one
- d. 0

2)

1)

 Δ ABC ~ Δ AQR, $\frac{AB}{AQ} = \frac{7}{5}$ then which of the following option is true.

- (a) A-Q-B
- (b) A-B-Q
- (c) A-C-B
- (d) A-R-B

3) If \triangle ABC ~ \triangle PQR and $\frac{AB}{PQ}=\frac{7}{5}$, then

a. △ ABC is bigger

b. △ PQR is bigger

c. Both triangles will be equal

d. Cannot be decided

Q.2 Solve the following question. (Any Two)

(4)

Construct \triangle LMN, such that LM = 6.2 cm, MN = 4.9 cm, LN = 5.6 cm.

- 2) Draw a circle of radius 2.7 cm. Draw a tangent to the circle at any point on it.
- 3) Draw a circle of radius 3.6. Draw a tangent to the circle at any point on it without using centre.

Q.3 Solve the following question. (Any Two)

(6)

- 1) Draw a circle of diameter 6.4 cm. Take a point R at a distance equal to its diameter from the centre. Draw tangents from point R.
- 2) Draw a circle with centre O and radius 3.5 cm. Take point P at a distance 5.7 cm from the centre. Draw tangents to the circle from point P.
- 3) Draw a circle of radius 3.4 cm and centre E. Take a point F on the circle.
 Take another point A such that E F A and FA = 4.1 cm. Draw tangents to the circle from point A.

Q.4 Solve the following question. (Any One)

(4)

Construct \triangle PYQ such that, PY = 6.3 cm, YQ = 7.2 cm, PQ = 5.8 cm. If $\frac{YZ}{YQ} = \frac{6}{5}$, then construct \triangle XYZ similar to \triangle PYQ.

Draw a circle with centre P. Draw an minor arc AB of measure 100°. Draw tangents to the circle at points A and B.

Q.5 Solve the following question. (Any One)

(3)

- 1) Draw a circle with centre P and radius 3.1 cm. Draw a chord MN of length 3.8 cm. Draw tangents to the circle through points M and N.
- 2) Draw a circle having radius 3 cm Draw a chord XY = 5 cm, Draw tangents at point X and Y without using centre.

