

Unit: 4 - GEOMETRY

5 marks:-

- ① State and prove Basic proportionality theorem (BPT)?
(or)
State and prove Thales theorem?
- ② State and prove Angle Bisector theorem?
- ③ State and prove Pythagoras theorem?
- ④ State and prove Converse of Basic proportionality theorem?
- ⑤ State and prove Converse of Angle Bisector theorem?
- ⑥ P and Q are the midpoints of the sides CA and CB respectively of a $\triangle ABC$, right angled at C. Prove that $4(AQ^2 + BP^2) = 5AB^2$.

2 marks:-

- ① What length of ladder is needed to reach a height of 7ft along the wall when the base of the ladder is 4ft from the wall?

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