## WANDOOR GANITHAM - S S L C UNIT TEST 2021



## ( <u>4 scores each for questions 6 to 7</u>)

- 6. Manu and Nandu stand on either side of a building . Manu sees the top of the building at an elevation of 45° and Nandu sees it an elevation of of 30°. The distance between the children is 40 metres .The building and the children are on the same line .
  a) Draw a rough figure based on the given details ?
  - b) What is the height of the building?
- A man standing away from the bottom of a tower sees its top at an angle of elevation of 60°. Standing back by 100 metres, he sees it an angle of elevation of 30°.
  - a) Draw a rough figure based on the given details ?
  - b) What is the height of the tower?

## ( <u>Question 8 carries 5 scores</u>)

- 8) A man standing on the top of a building sees the top of a tower at an elevation of 45° and its base at a depression of 60°. The distance between the building and the tower is 50 metres.
  - a) Draw a rough figure based on the given details ?
  - b) What is the height of the building?
  - c) What is the height of the tower?
  - d) What is the ratio of the sides of of a triangle having angles 30°, 45° and 105°?