A

## SAMAGRA SHIKSHA, KERALA SECOND TERM EVALUATION 2022-'23 MATHEMATICS

· ALLIE

Standard: X

Time: 21/2hours

Score: 80

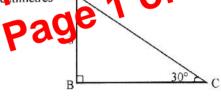
## Instructions

- · Read the instructions before answering the questions
- · Give explanations wherever necessary
- · First 15 minutes time is cool off time
- Simplifications using approximate values of  $\sqrt{2}$ ,  $\sqrt{3}$ ,  $\pi$  need to be done specifically asked.

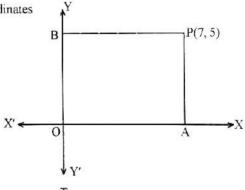
Answer any 3 Questions from 1 to 4. Each question can e. 2 stores

 $(3 \approx = 6)$ 

- In the figure,  $\angle B = 90^{\circ}$ ,  $\angle C = 30^{\circ}$ , AB = 3 centimetres
  - a) What is the measure (
  - b) Find the leigth f bc.



- 2. When each side of a square is increased by 1 metre, the area becomes 49 squaremetres. What is the length of one side of the original square?
- 3. In the figure, OAPB is a rectangle. The coordinates of the point P are (7, 5).
  - a) Write the coordinates of A.
  - b) Write the coordinates of B.



- 4. PT and PS are tangents of a circle with centre at O.  $\angle$ SPT = 60°.
  - a) Find the measure of ∠ SOT
  - b) Find the measure of ∠POT

