Short Questions

Write the short answers of the following:

- O.1: Define the law of sine.
- Q.2: Define the Laws of cosines
- In right triangle ABC, $\gamma = 90^{\circ}$, a = 5, c = 13 then find the value of Q.3: angle α .
- Given that $\gamma = 90^{\circ}$, $\alpha = 35^{\circ}$, a = 5, find angle β Q.4:
- In right triangle ABC b = 6, $\alpha = 35^{\circ}$, $\gamma = 90^{\circ}$, Find side 'a' Q.5:
- $\alpha = 30^{\circ}$, $\gamma = 135^{\circ}$, and c = 10, find a Q.6: Given that
- In any triangle ABC, if a =20, c = 32 and $c = 70^{\circ}$, Find A. In any triangle ABC if a =9, b = 5, and $\gamma = 32^{\circ}$. Find c. O.7:
- Q.8:
- Q.9: The sides of a triangle are 16, 20 and 33 meters respectively. Find its greatest angle.
- Q.10: Define angle of elevation and depression.
- Q.11: A string of a flying kite is 200 meters long, and its angle of elevation is 60°. Find the height of the kite above the ground taking the string to be fully stretched.
- Q.12: A minaret stands on the horizontal ground. A man on the ground, 100 m from the minaret, Find the angle of elevation of the top of the minaret to be 60°. Find its height.
- Q.13: The shadow of Qutab Minar is 81m long when the measure of the angel of elevation of the sun is 41° 31'. Find the height of the Outab Minar.

Find sin γ

- 0.14: In any triangle ABC in which $b = 45, c = 34, \alpha = 52^{\circ},$ find a
- Q.15: In any triangle ABC is which

 $a = 16, b = 17, \gamma = 25^{\circ}$ find c

Q.16: In any triangle ABC in which = 5, c = 6, $\alpha = 45^{\circ}$ a

O.17: b = 25. c = 37 a = 65° find a

Q.18: $a = 16, b = 17, \gamma = 25^{\circ}$ find c

Q.19: a = 3, b = 7, $\beta = 85^{\circ}$, Find α .

Answers