

ECAT Pre General Science Mathematics Chapter 14 Application of Trigonometry Online Test

Sr	Questions	Answers Choice
1	A person standing on the bank of a river observes that the angle of elevation of the top of a tree on the opposite bank of the river is 60° and when he retires 40 meters away from the tree the angle of elevation becomes 30°. The breadth of the river is	A. 40 m B. 30 m C. 20 m D. 60 m
2	AB is a vertical pole and C is its middle point. The end A is on the level ground and P is any point on the level ground other than A. the portion CB subtends and angle β at P. If AP : AB = 2 : 1 then β =	
3	Question Image	
4	Question Image	
5	A triangle which is not right is called an triangle	A. Acute B. Obtuse C. Oblique D. None of these
6	Question Image	A. The law of sines B. The law of consines C. The law of tangents D. None of these
7	x = r2, $y = 1$ are the parametric equation of	A. Circle B. Hyperbola C. Ellipse D. Parabola
8	If a, b, c are the measures of the sides of a triangle then	
9	A kite flying at a height of 67.2 m is attached to a fully stretched string inclined at an angle of 53 to the horizontal, the length of the string	A. 62m B. 82m C. 73m D. 57m
10	The law of sines can be used to solve	A. Right angle triangle B. Isosceles triangle C. oblique triangle D. haxagon
11	E-radius corresponding to < B is	
12	A circle which touches one side of a triangle extermally and the other two sides produced is called	A. In-circle B. Circumcircle C. e-circle D. Point circle
13	The horizontal distance between the two towers is 60 m . the angular elevation of the top of the taller tower as seen from the top of the shorter one is 30° . If the height of the taller tower is 150 m , the height of the shorter one is	A. 116 m B. 200 m C. 216 m D. None of these
14	The law of consines is	
15	Question Image	
16	The angle of depression of a point situated at a distance of 70 meters from the base of a tower is 45°. The height of the tower is	A. 70 m B. 85 m C. 35 m D. None of these
17	If the flag-staff 6 meters high placed on the top of a tower. Makes the shadow $2\sqrt{3}$ m on the ground, then the angle of elevation of the sun is	A. 30 ^o B. 35 ^o C. 45 ^o D. 60 ^o
18	A vertical pole is 8m high and the length of its shadow is 6m. The angle of elevation of the sun of the moment is	A. 57□ B48□ C. 27□ D. 53□
		A. Two angles and a side

19	The law of sines can be used to solve oblique triangle when following information is given:	B. I wo sides and an angle opposite one of the given sides C. Two sides and the angle between two sided D. Option a and b
20	For any equilateral r :R :η :r1 :r2 :r3 =	A. 1:2:3:4:5 B. 1:2:3:3:3 C. 1:2:4:4:4 D. 2:1 :2 :2 :2