ECAT Mathematics Chapter 14 Application of Trigonometry

Sr	Questions	Answers Choice
1	The angle of elevation of the top of a tree from a point 17 meters from is foot is 42 The height of the tree is	A. 12m B. 21m C. 17m D. 15m
2	The longer side of a parallelogram is 10 cm and the shorter is 6 cm. If the longer diagonal makes an angles 30° with the longer side, the length of the longer diagonal is	
3	The process of finding the unknown elements in triangle is called the	A. solution of the triangle B. Mean differnece C. Engineering distance D. angle of depressin
4	If five triangles are constructed having sides of the lengths indicated below, the triangle that will NOT be a right triangle is	A. 8, 15, 17 B. 3, 4, 5 C. 12, 15, 18 D. 5, 12, 13
5	At a point 15 meters away from the base of a 15 meters high house, the angle of elevation of the top is	A. 90° B. 60° C. 30° D. 45°
6	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
7	If you are looking a high point from the ground, then the angle formed is	A. Angle of elevation B. Angle of depression C. Right angle D. Horizon
8	Question Image	
9	If θ= 60° then	A. sinθ= 1/2 B. tanθ= cot 30° C. θ=π/4 D. secθ= 4
10	Question Image	
11	The law of tangents is _____	
12	Area of inscribed circle is	A. π R2 B. π η2 C. π r22 D. π r2
		A. 2 : 1

13	The angle of elevation of the tops of two towers at the middle point of the line joining the foots of the tower are $60^{o}$and 30^{o}respectively. The the ratio of the heghts of the tower is	B. 3 : 1 C. 1 : 2 D. 1 : 3
14	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
15	Question Image	
16	120° degrees are equal to how many radians?	
17	A person standing on the bank of a river observes that the angle subtended by a tree of the opposite bank is 60°, when he retreats 40 m from the bank, he finds the angle to be 30°. The height of the tree and the breadth of the river are	
18	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
19	Question Image	
20	Question Image	A. The law of sines B. The law of consines C. The law of tangents D. None of these