ECAT Mathematics Chapter 14 Application of Trigonometry

Sr	Questions	Answers Choice
1	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
2	IfΔABC is right, law of cosine reduce to	A. Law of sine B. Law of tangent C. Phthogorous theorem D. Hero's formula
3	Question Image	
4	Question Image	
5	Question Image	A. The law of consines B. The law of sines C. The law of tangents D. None of these
6	The upper 3/4 the portion of a vertical pole subtends an angle $\tan^{-1}3/5$ at a point in the horizontal plane through its foot and at a distance 40 m from the foot. A possible height of the vertical pole is	A. 20 m B. 40 m C. 60 m D. 80 m
7	Question Image	A. The law of sines B. The law of consines C. The law of tangents D. None of these
8	The law of sines can be used to solve oblique triangle when following information is given:	A. Two angles and a side B. Two sides and an angle opposite one of the given sides C. Two sides and the angle between two sided D. Option a and b
9	e-radii are denoted by	A. η B. r2 C. r3 D. All of these
10	The triangle that does not have a right angle is called.	A. Isosceles triangle B. right angle triangle C. equivalent triangle D. oblique triangle
11	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 angleβat P. If AP : AB = 2 : 1 thenβ=	
12	If the elevation of the sun is 30°, then the length of the shadow cast by a tower of 150 ft height is	
13	Question Image	A. The law of of sines B. The law of tangents C. The law of consines D. None of these
14	The law of sines can be used to solve	A. Right angle triangle B. Isosceles triangle C. oblique triangle D. haxagon
15	Question Image	
16	A triangle has six	A. side B. elements C. angle D. tangents
17	E-radius corresponding to < B is	
		A. 37m

18	The angle of depression of the point at a distance 70 meters from the foot of the tower from the top of the tower is 45□.The height of the tower is	B. 97m C. 101m D. 70m
19	A circle drawn inside a triangle and touching its sides is called	A. In-circle B. Circum circle C. Escribed circle D. None of these
20	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