ECAT Mathematics Chapter 14 Application of Trigonometry

Sr	Questions	Answers Choice
1	If Cosθ=0, thenθ= _____	A. nπ/2 B. (2n + 1)π/2 C. (2n - 1)π/2 D. (4n + 1)π/2
2	Question Image	
3	120° degrees are equal to how many radians?	
4	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
5	Question Image	A. The law of sines B. The law of consines C. The law of tangents D. None of these
6	The law of sines is	
7	Question Image	A. 30° B. 60° C. 45° D. None of these
8	Area of inscribed circle is	A. π R2 B. π η2 C. π r22 D. π r2
9	If the flag-staff 6 meters high placed on the top of a tower. Makes the shadow 2√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
10	Question Image	
11	The angles of elevation of the top of a tower at the top and the foot of a pole of height 10 m are 30° and 60° respectively. The height of the tower is	A. 10 m B. 15 m C. 20 m D. None of these
12	Question Image	
13	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
14	Question Image	
15	IfΔABC is right, law of cosine reduce to	A. Law of sine B. Law of tangent

15	If△ABC is right, law of cosine reduce to	C. Phthogorous theorem D. Hero's formula
16	Question Image	
17	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	
18	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	
19	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
20	E-radius corresponding to < C is	