

ECAT Mathematics Chapter 14 Application of Trigonometry

Sr	Questions	Answers Choice
1	If the angle of a triangle are in the ratio 2 : 3 : 7, the triangle is	A. Obtuse B. Acute C. Right angle D. Isosceles
2	The angle of depression of a point A on the ground from the top of the tower is 30° , then the angle of elevation of the top of the tower at the point A is	A. 60° B. 40° C. 41° D. 30°
3	In ladder leaning against a vertical wall makes an angle of 24° with the wall, its foot is 5m from the wall, its length is	A. 5.47m B. 2m C. 7m D. 6.29m
4	Question Image <input type="text"/>	A. The law of sines B. The law of cosines C. The law of tangents D. None of these
5	A circle which touches one side of a triangle externally and the other two sides produced is called	A. In-circle B. Circumcircle C. e-circle D. Point circle
6	Question Image <input type="text"/>	
7	For any equilateral $r : R : \eta : r_1 : r_2 : r_3 =$	A. 1:2:3:4:5 B. 1:2:3:3:3 C. 1:2:4:4:4 D. 2:1 :2 :2 :2
8	The triangle that does not have a right angle is called.	A. Isosceles triangle B. right angle triangle C. equivalent triangle D. oblique triangle
9	Question Image <input type="text"/>	
10	If a, b, c are the measures of the sides of a triangle then	
11	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
12	Area of inscribed circle is	A. πR^2 B. $\pi \eta^2$ C. πr^2 D. πr^2
13	The process of finding the unknown elements in triangle is called the	A. solution of the triangle B. Mean difference C. Engineering distance D. angle of depression
14	A circle drawn inside a triangle and touching its sides is called _____;	A. Circumcircle B. Incircle C. Escribed circle D. unit circle
15	120° degrees are equal to how many radians?	
16	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° and 30° respectively. The the ratio of the heights of the tower is	A. 2 : 1 B. 3 : 1 C. 1 : 2 D. 1 : 3
17	A man of height 6 ft observes the top of a tower and the foot of the tower at angles of 45° and 30° of elevation and depression respectively. The height of the tower is	
18	The law of cosines is	A. Law of sine

19 If $\triangle ABC$ is right, law of cosine reduce to

- B. Law of tangent
- C. Phthogorous theorem
- D. Hero's formula

20 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