CSS General Abilities Chapter 3 Online Entry Test

Sr	Questions	Answers Choice
1	A cyclic quadrilateral whose opposite angles are equal, is a :	A. parallelogram but not a rhombus B. rhombus C. rectangle D. square but not a rectangle
2	What is the area of a circle whose radius is the diagonal of a square whose area is 4 ?	A. 2π B. 2π√2 C. 4π D. 8π
3	If A is the area and C the circumference of a circle, which of the following is an expression for A in terms of C ?	A. C²/4π B. C²/4π² C. 2C D. 2C²√π
4	The circumference of a circle of aπ units, and the area of the circle is bπ square units. If a = b, what is the radius of the circle ?	A. 1 B. 2 C. 3 D. π
5	Question Image	A. 15 B. 30 C. 45 D. 54
6	A 5 × 12 rectangle is inscribed in a circle. What is the radius of the circle ?	A. 6.5 B. 7 C. 8.5 D. 13
7	A square of area 2 is inscribed in a circle. What is the area of the circle ?	A. π/4 B. π/2 C. π D. π√2
8	What is the area of a circle that is inscribed in a square of area ?	A. π/4 B. π/2 C. π D. π√2
9	What is the area of a circle whose circumference is π ?	A. π/4 B. π/2 C. π D. 2π
10	What is the circumference of a circle whose area is 100π ?	A. 10 B. 20 C. 10π D. 20π
11	Question Image	A. 100 B. 110 C. 120 D. 130
12	If the measures of the angles of a triangle are in the ratio of 1:2:3, and if the length of the smallest side of the triangle is 10, what is the length of the longest side ?	A. 10√2 B. 10√3 C. 15 D. 20
13	Question Image	A. 5√2 B. 10 C. 11 D. 13
14	Two sides of a right triangle are 12 and 13, which of the following could be the length of the third side ? i. 5 ii. 11 iii. √313	A. 1 only B. 2 only C. 1 and 2 D. 1 and 3
15	If the difference between the measures of the two smaller angles of a right	A. 37 B. 41

15	triangle is 8^o , what is the measure, in degrees, of the smallest angle ?	C. 42 D. 49
16	Question Image	A. 20 B. 30 C. 40 D. 50
17	Given the following data, which can form two triangles ? i. ∠C = 30o, c = 8, b = 12 ii. ∠B = 45o, a = 12√2, b = 15√2 iii. ∠C = 60^o , b = 12, c = 5√3	A. only 1 B. only 2 C. only 3 D. only 1 and 2
18	The area of Δ ABC, = 24√3 , side a = 6, and side b = 16. The value of ∠ C is	A. 30^o B. 30^o or 150^o C. 60^o D. 60^o or 120^o
19	Question Image	A. 7 B. 17 C. 9 D. 14
20	Question Image	A. a > 4√3 B. a > 8 C. a = 4√3 D. 4√3 < a < 8