

# Kerala SSLC Maths 2024 Answer Key

**Answer any 3 questions from 1 to 4. Each question carries 2 scores  
(2×3=6)**

**Q.1.** 7, 13, 19, ... is an arithmetic sequence.

(a) What is its common difference?

(b) Find its 11th term.

**Answer:** a).  $d=6$  and b).  $X_{11} = 67$

**Q.2.** The weights of 11 players of a football team are given in kilograms: 55, 65, 56, 70, 62, 54, 64, 58, 68, 65, 60 Find the median of the weights of players.

**Answer:** 62 Kg

**Q.3.** A dot is put inside the circle without looking at it.

(a) What is the probability that the dot is within the unshaded part?

(b) What is the probability that the dot is within the shaded part?

**Answer:** a)  $\frac{1}{3}$  and b)  $\frac{2}{3}$

**Q.4.** AB is a chord of a circle of radius 3 centimetres. Chord AB makes a right angle at the centre. What is the length of AB?

**Answer:**  $AB = 3\sqrt{2}$

**Answer any 4 questions from 5 to 10. Each question carries 3 scores  
(4×3=12)**

**Q.5.** A(3, 9), and C(8, 12) are the coordinates of two opposite vertices of a rectangle whose sides are parallel to the coordinate axes.

(a) Find the coordinates of the other two vertices of the rectangle.

(b) Find the lengths of the sides of the rectangle.

**Answer:** (a) B( 8,9) D( 3,12) and (b) Sides 5,3