7. What is the condition for one root of the quadratic equation $ax^2 + bx + c = 0$ to be twice the other

(a) $b^2 = 4ac$ (b) $2b^2 = 9ac$

(c) $c^2 = 4a + b^2$ (d) $c^2 = 9a - b^2$

8. C is the mid-point of PQ, if P is $(4, x)$, C is $(y, -1)$ and Q is $(-2, 4)$, then x and y respectively are—

(a) -6 and 1 (b) -6 and 2

(c) 6 and -1 (d) 6 and -2

SECTION – B

DIRECTIONS : *Question number 9 to 14 carry 2 marks each.*

9. Find the sum of all multiples of 9 between 300 and 700.

10. In the given Fig $AB = AC$, Prove that $BE = CE$.

11. It is proposed to build a single circular park equal in area to the sum of areas of two circular parks of diameters 16 m and 12 m in a locality. Find the radius of the new park.

12. Find the radius of the circle whose centre is at $(0, 0)$ and which passes through the point $(-6, 8)$

13. A die is thrown once. What is the probability of getting a number 3 or 4

OR

Find the probability that an odd number turns up in a single throw of die.

14. It is known that a box of 600 electric bulbs contain 12 defective bulbs. One bulb is taken out at random form this box. What is the probability that it is a non-defective bulb?

SECTION – C

DIRECTIONS : *Question number 15 to 24 carry 3 marks each.*

15. Solve equation $x^2 + 3x + 1 = 0$ by the method of completing squares

OR

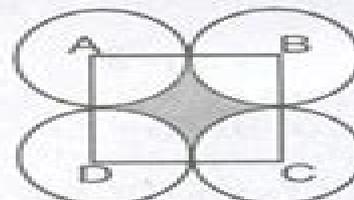Using factorisation method, solve the quadratic equation : $3a^2x^2 + 8abx + 4b^2 = 0$, $a \neq 0$

16. Two A.P.'s have the same common difference. The difference between their 100th terms is 100, what is the difference between their 1000th terms?

17. Two concentric circles are of radii 5 cm and 3 cm. Find the length of the chord of the larger circle which touches the smaller circle.

OR

PQ and RS are two parallel tangents to a circle with centre O and another tangent XY with point of contact C intersect PQ at A and RS at B. Prove that $\angle AOB = 90°$.

18. Draw a circle of radius 3 cm. From a point P, 7.5 cm away from the centre of the circle, draw two tangents to the circle.

19. Four equal circles, each of radius 3.5 cm, touch one another, as shown in the figure. Find the area of the shaded portion.

20. How many meters of cloth 1.1 m wide will be required to make a conical tent whose vertical height is 12 m and base radius is 16 m. Find also the cost of the cloth used at the rate of ₹ 21 per m.

OR

A tent is in the form of a rt. circular cylinder surmounted by a cone. The diameter of cylinder is 24 m. The height of the cylindrical portion 11m, while the vertex of the cone is 16 m above the ground. Find the area of the canvas required for the tent.

21. A person, standing on the bank of a river, observes that the angle subtended by a tree on the opposite bank is 60° ; when he retreates 20m from the bank, he finds the angle to be 30°. Find the height of the tree and the breadth of the river.

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