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1ST JAN 2026 TO TILL MARCH 2026 FINAL EXAM.

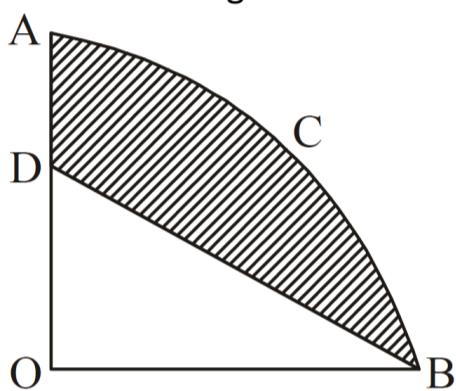
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Q1. If $(3, 3)$, $(6, y)$, $(x, 7)$ and $(5, 6)$ are the vertices of a parallelogram taken in order, find the values of x and y . **3 Marks**

Q2. Sum of the areas of two squares is 157m^2 . If the sum of their perimeters is 68m , find the sides of the two squares. **3 Marks**

Q3. The centre of a circle is $(2a, a - 7)$. Find the values of 'a' if the circle passes through the point $(11, -9)$. Radius of the circle is $5\sqrt{5}\text{cm}$. **3 Marks**

Q4. In the given figure, OACB is a quadrant of a circle with centre O and radius 3.5 cm . If $OD = 2\text{ cm}$, find the area of the shaded region. **3 Marks**



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Q5. In Figure, find the area of the shaded region where a circular arc of radius 7cm has been drawn with vertex O of an equilateral triangle OAB of side 14cm as centre. (use $\pi = \frac{22}{7}$ and $\sqrt{3} = 1.73$) **3 Marks**

Q6. Find the mean of the following frequency distribution: **3 Marks**

Class	Frequency
0 - 10	12
10 - 20	18
20 - 30	27
30 - 40	20
40 - 50	17
50 - 60	6

Q7. Heights of 50 students of class X of a school are recorded and following data is obtained: **3 Marks**

Height (in cm):	Number of Students:
130 - 135	4
135 - 140	11
140 - 145	12
145 - 150	7
150 - 155	10
155 - 160	6

Find the median height of the students.

Q8. Find the coordinates of a point P on the line segment joining A(1, 2) and B(6, 7) such that $AP = \frac{2}{5}AB$. **3 Marks**

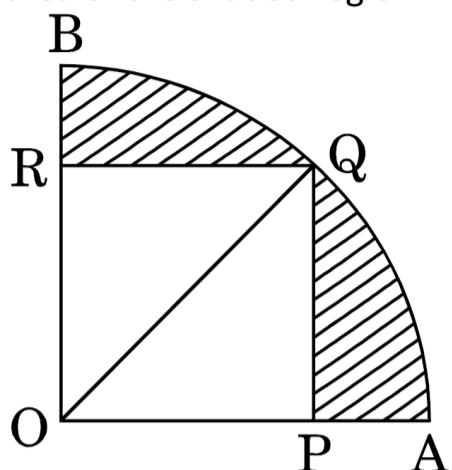
Q9. If the point A(0, 2) is equidistant from the points B(3, p) and C(p, 5), find p. Also find the length of AB. **3 Marks**

Q10. Find the ratio in which the y-axis divides the line segment joining the points $(-1, -4)$ and $(5, -6)$. Also find the coordinates of the point of intersection. 3 Marks

Q11. Find the roots of the following quadratic equation 3 Marks

$$2\sqrt{3}x^2 - 5x + \sqrt{3} = 0$$

Q12. In Figure, a square OPQR is inscribed in a quadrant OAQB of a circle. If the radius of circle is $6\sqrt{2}$ cm, find the area of the shaded region. 3 Marks



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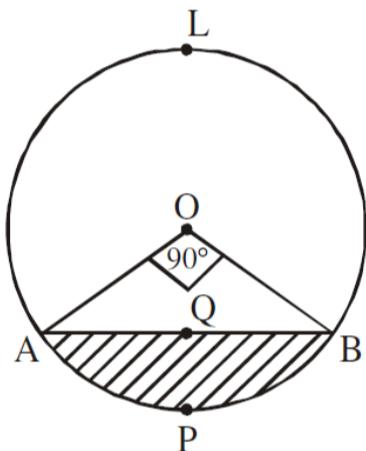
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Q13. If the point $P(k - 1, 2)$ is equidistant from the points $A(3, k)$ and $B(k, 5)$, find the values of k . 3 Marks

Q14. In fig. 5 is a chord AB of a circle, with centre O and radius 10 cm, that subtends a right angle at the centre of the circle. Find the area of the minor segment $AQBP$. Hence find the area of major segment $ALBQA$. (use $\pi = 3.14$) 3 Marks



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Q15. Find the ratio in which the point $(2, y)$ divides the line segment joining the points $A(-2, 2)$ and $B(3, 7)$. Also find the value of y . 3 Marks

Q16. In what ratio does the point $P(-4, y)$ divide the line segment joining the points $A(-6, 10)$ and $B(3, -8)$ if it lies on AB . Hence find the value of y . 3 Marks

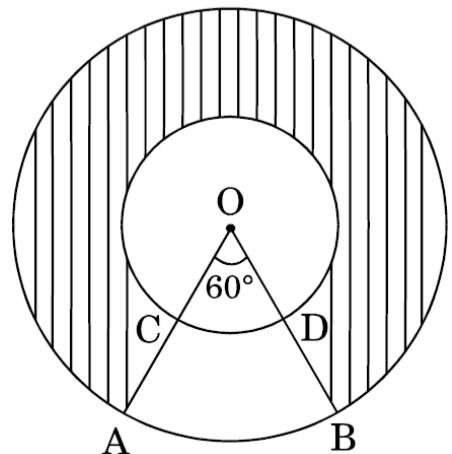
Q17. The marks obtained by 100 students in an examination are given below: 3 Marks

Marks:	30-35	35-40	40-45	45-50	50-55	55-60	60-65
Number of Students:	14	16	28	23	18	8	3

Find the mean marks of the students.

Q18. For what values of k , are the roots of the quadratic equation: $(k + 4)x^2 + (k + 1)x + 1 = 0$ equal? 3 Marks

Q19. In the given figure, two concentric circles with centre O have radii 21 cm and 42 cm. If $\angle AOB = 60^\circ$, find the area of the shaded region. [Use $\pi = \frac{22}{7}$] 3 Marks



Q20. If the point $P(x, y)$ is equidistant from the points $A(a + b, b - a)$ and $B(a - b, a + b)$. Prove that $bx = ay$. 3 Marks

Q21. Solve the equation $\frac{3}{x+1} - \frac{1}{2} = \frac{2}{3x-1}$; $x \neq -1, x \neq \frac{1}{3}$, for x . 3 Marks

Q22. If the coordinates of points A and B are $(-2, -2)$ and $(2, -4)$ respectively, find the coordinates of P such that $AP = \frac{3}{7}AB$, where P lies on the line segment AB. 3 Marks

Q23. Show that the points $A(-1, 1)$, $B(5, 7)$ and $C(8, 10)$ are collinear. 3 Marks

Q24. In Fig. 6, $PQ = 24\text{cm}$, $PR = 7\text{cm}$ and O is the centre of the circle. Find the area of shaded region (take $\pi = 3.14$) 3 Marks

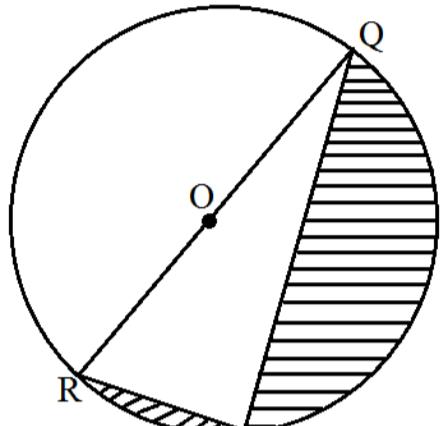


Fig. 6

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Q25. Find the roots of the following equation: 3 Marks

$$\frac{1}{x+4} - \frac{1}{x-7} = \frac{11}{30}; x \neq -4, 7$$

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