



PEREODIC EXAM CLASS -X MATHS

IIME:1.20 HR.	MM:20
Q. 1:If tangents PA and PB from a point P to a circle with to each other an angle of 80°, then ∠POA is equal to (1)	centre O are inclined
(A) 50° (B) 60° (C) 70° 80°	(D)
Q. 2: Complete the following statements: (4)	
(i) Probability of an event E + Probability of the event 'no	ot E' =
(ii) The probability of an event that cannot happen isis called	Such as event
(iii) The probability of an event that is certain to happen is event is called	s Such as
(iv) The sum of the probabilities of all the elementary ever is	nts of an experiment
(v) The probability of an event is greater than or equal to than or equal to	and less

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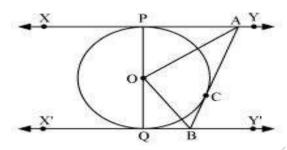
Q. 3: From a point Q, the length of the tangent to a circle is 24 cm and the distance of Q from the centre is 25 cm. The radius of the circle is (1)

(A) 7 cm

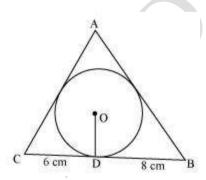
(B) 12 cm (C) 15 cm

(D) 24.5 cm

Q.4 :In the given figure, XY and X'Y' are two parallel tangents to a circle with centre O and another tangent AB with point of contact C intersecting XY at A and X'Y' at B. Prove that $\angle AOB=90^{\circ}$. **(2)**



Q. 5:A triangle ABC is drawn to circumscribe a circle of radius 4 cm such that the segments BD and DC into which BC is divided by the point of contact D are of lengths 8 cm and 6 cm respectively (see given figure). Find the sides AB and AC. **(4)**





- Q. 6: A jar contains 24 marbles, some are green and others are blue. If a marble is drawn at random from the jar, the probability that it is green is $\frac{2}{3}$. Find the number of blue balls in the jar. (2)
- Q. 7: Two dice, one blue and one grey, are thrown at the same time. (3)
- (i) Write down all the possible outcomes and complete the following table:

Event: Sum of two dice	2	3	4	5	6	7	8	9	10	11	12
Probability	$\frac{1}{36}$						$\frac{5}{36}$				$\frac{1}{36}$

- (ii) A student argues that 'there are 11 possible outcomes 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and 12. Therefore, each of them has a probability $\frac{1}{11}$. Do you agree with this argument?
- Q. 8: 12 defective pens are accidentally mixed with 132 good ones. It is not possible to just look at a pen and tell whether or not it is defective. One pen is taken out at random from this lot. Determine the probability that the pen taken out is a good one.

 (1.5)
- Q. 9: A box contains 90 discs which are numbered from 1 to 90. If one disc is drawn at random from the box, find the probability that it bears

(1.5)

- (i) a two-digit number
- (ii) a perfect square number





(iii) a number divisible by 5.

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