fall out when the bank is turned. upside down, what is the probability that win :

(i) will be a 50 p Coin?

(ii) will not be a ₹5 coin?

(iii) will be ₹10 Coin ?

PAPER-3

SECTION - A

▶ **Do as directed. (Q. 1 to 24) [1 Marks Each]** **(24)**

- **Choose the correct option. (Q. 1 to 6)**

(1) Kinjal ia asking to Dipti that before 3 years the sum of their ages were 36, then tell me that after 4 years what will be the sum of their ages?

(A) 53 years (B) 43 years

(C) 39 years (D) 50 years

(2) which of the following is a root of the quadratic equation $\sqrt{3}x^2+10x+7\sqrt{3}=0$?

(A) $-\sqrt{3}$ (B) $\sqrt{3}$

(C) $7\sqrt{3}$ (D) $-7\sqrt{3}$

(3) If n^{th} term of an AP is 2n + 1 then its sum of n terms is _____

(A) n(n-1) (B) n(n+2)

(C) n(n+1) (D) n(n-1)

(4) A(1, 2), B (2, 3), C (3, 4) are given points out of the following which is true ?

(A) AC + BC = AB

(B) AB + BC = AC

(C) C is the midpoint of AB

(D) A, B, C are not collinear.

(5) $\frac{1+\tan^2 A}{1+\cot^2 A}$ = _____

(a) $\sec^2 A$ (b) -1

(c) $\cot^2 A$ (d) $\tan^2 A$

(6) Equation of mean $\bar{x} = a + \frac{\sum fiui}{\sum fi}$ where ui = _____

(A) $\frac{x_i - a}{h}$ (B) $x_i - a$

(C) $x_i - h$ (D) $\frac{x_i - h}{a}$

- **Fill in the blanks. (Q. 7 to 12)**

(7) L.C.M (12,15) = _____ (15,1, 60)

(8) one zero -5 is of quadratic equation. $P(x)=x^2+7x+10$ them second zero is _____. (-2,7, 5)

(9) If the value of θ is increased Then value of Sinθ is _____. (increased, decreased, minus)

(10) The Common point of a tangent to a circle and the circle is Called the _____ (point of contact, origin, mid point)

(11) Median class is _____ of the following distribution table.

Class	0-15	15-30	30-45	45-60	60-75
Frequency	8	7	12	10	2

(60-75, 30-45, 15-30)

(12) The probability is _____ to get 5 Mondays come in june month of a non leap yeur. ($\frac{1}{7}, \frac{2}{7}, \frac{3}{7}$)

- **Write the statements true or false. (Q. 13 to 16)**

(13) $2+\sqrt{2}$ is an irrational number.

(14) If 3 is one zero of $P(x)=x^2-11x+K$ then k = 24.

(15) For pair of linear equations in two variables. $\frac{a_1}{a_2} \neq \frac{b_1}{b_2}$ then pair of equations is Consistant

(16) The sum of the probabilites of all the elementary events of an experiment is 1

- **Match the following. (Q. 17 to 20)**

	A	B
(17)	The region enclosed by the chord and its corresponding arc are called _____	(a) sector
(18)	The circular region enclosed by two radii and the corresponding arc is called _____	(b) Segment
		(c) Diameter

	A	B
(19)	Total surface area of a cylinder	(a) $\frac{2}{3}\pi r^3$
(20)	volume of a sphere	(b) $\frac{1}{3}\pi r^2 h$
		(c) $2\pi r(h+r)$

- **Solve the following. (Q. 21 to 24)**

(21) Find the sum of an AP given as: 2,7,12,.... upto 10 terms.

(22) From a point Q, the length of tangent to a Circle is 24 cm. and the distance of Q from the Centre is

25 cm. The radius of the circle find.

(23) write the lower limit of class 25 - 45

(24) what is the probability to get 6 on balanced die thrown?