

17. A bag contains 12 Two rupees coins, 7 One-rupee coins and 4 half a rupee coin. If three coins are selected at random, then find the probability that
- (i) the sum of three coins is maximum (ii) the sum of three coins is minimum
 (iii) each coin is of different value.

III. Long answer type questions

$5 \times 7 = 35$

18. If n is a positive integer, then show that

$$(P + iQ)^{\frac{1}{n}} + (P - iQ)^{\frac{1}{n}} = 2(P^2 + Q^2)^{\frac{1}{2n}} \cdot \cos\left(\frac{1}{n} \tan^{-1} \frac{Q}{P}\right).$$

19. Solve the equation $6x^4 - 35x^3 + 62x^2 - 35x + 6 = 0$.

20. Find the sum of the series $1 + \frac{1}{3} + \frac{1.3}{3.6} + \frac{1.3.5}{3.6.9} + \dots + \infty$.

21. If the 2nd, 3rd and 4th terms in the expansion of $(a + x)^n$ are respectively 240, 720 and 1080, then find the values of a , x and n .

22. Calculate the variance and standard deviation for the following continuous frequency distribution.

x_i	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50
f_i	5	8	15	16	6

23. Three Urns have the following composition of balls

Urn I: 1 white, 2 black Urn II: 2 white, 1 black Urn III: 2 white, 2 black

One of the Urns selected at random and a ball is drawn, it turns out to be white. Find the probability that it came from Urn III.

24. A variable X has the following probability distribution

$X = x_i$	0	1	2	3	4	5	6	7
$P(X = x_i)$	0	k	$2k$	$2k$	$3k$	k^2	$2k^2$	$7k^2 + k$

- Find (i) k (ii) the mean of X (iii) $P(0 < X < 5)$.



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