1. The probability of a leap year selected at random contain 53								
Sunday is:								
(a) 53/ 366 (b) 1/7 (c) 2/7 (d) 53/365								
2. A bag contains 3 red and 2 blue marbles. A marble is drawn at								
random. The probability of drawing a black ball is :								
(a) 3/5 (b) 2/5 (c) 0/5 (d) 1/5								
3. The probability that it will rain tomorrow is 0.85. What is the								
probability that it will not rain tomorrow								
(a) 0.25 (b) 0.145 (c) 3/20 (d) none of these								
4. What is the probability that a number selected from the numbers								
(1, 2, 3,,15) is a multiple of 4?								
(a) 1/5 (b) 4/5 (c) 2/15 (d) 1/3								
5. What are the total outcomes when we throw three coins?								
(a) 4 (b) 5 (c) 8 (d) 7								
6. The probability that a prime number selected at random from the								
numbers (1,2,3,35) is :								
(a) 12/35 (b) 11/35 (c) 13/35 (d) none of these								
7. The sum of the probability of an event and non event is:								
(a) 2 (b) 1 (c) 0 (d) none of these.								
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13. Two dice are thrown simultaneously. The probability of getting a sum of 9 is:

(A) 1/10	(B) 3/10	(C) 1/9	(D) 4/9				
	ds are numberdime number.	ed from 1 to 10	00. Find the p	robability of			
(A) 3/4	(B) 27/50	(C) 1/4	(D) 2	29/100			
_	a blue ball is do	ouble that of a		the probability the number of			
16. A box of taken out at non-defecti	f 600 bulbs cor random from ve bulb is:	ntains 12 defections this box. Then	ctive bulbs. O the probabili				
mixed thoro	ughly. One car lity that the nu	mbers 2 to 101 rd is drawn from mber on card is (C) 3/10	m this box ra s a perfect so	ndomly, then Juare.			
18. What is (A) 1/7	•	y of getting 53 (C) 2/7	Mondays in a				
19. A card is drawn from a well shuffled deck of 52 cards. Find the probability of getting a king of red suit. (A) 1/26 (B) 3/26 (C) 7/52 (D) 1/13							
equally likel 1,2,312,	y to come to re		one of the nu	ımber odd number is:			
21. A game consists of tossing a one rupee coin 3 times and noting its outcome each time. Aryan wins if all the tosses give the same result i.e. three heads or three tails and loses otherwise. Then the probability that Aryan will lose the game. (A) 3/4 (B) 1/2 (C) 1 (D) 1/4							

22. Riya and Kajal are friends. Probability that both will have the same birthday is the same birthday is:							
(A) 364/365	(B) 31/365	(C) 1/365	(D) 1/133225				
23. A number x is chosen at random from the numbers -2, -1, 0, 1, 2. Then the probability that $x^2 < 2$ is? (A) $1/5$ (B) $2/5$ (C) $3/5$ (D) $4/5$							
24. A jar contains 24 marbles. Some are red and others are white. If a marble is drawn at random from the jar, the probability that it is red is 2/3, then the number of white marbles in the jar is: (A) 10 (B) 6 (C) 8 (D) 7							
25. A number is selected at random from first 50 natural numbers. Then the probability that it is a multiple of 3 and 4 is: (A) $7/50$ (B) $4/25$ (C) $1/25$ (D) $2/25$							
26. Consider a dice with the property that that probability of a face with n dots showing up is proportional to n. The probability of face showing 4 dots is?							
a) $\frac{1}{7}$	b) $\frac{5}{42}$	c) $\frac{1}{21}$	d) $\frac{4}{21}$				
27. Runs scored by batsman in 5 one day matches are 50, 70, 82, 93, and 20. The standard deviation is							
		c) 25.29	d) 25.69				
28. Find median and mode of the messages received on 9 consecutive days 15, 11, 9, 5, 18, 4, 18, 13, 17.							
	b) 13, 18		d) 13, 16				
29. A coin is tossed up 4 times. The probability that tails turn up in 3 cases is							
a) $\frac{1}{2}$	b) $^{1}/_{3}$	c) ¹ / ₄	d) $\frac{1}{6}$				
a) 8 b		d 3. The value of c) 27 d	E(X²) is				
31. The random variables X and Y have variances 0.2 and 0.5 respectively. Let Z= 5X-2Y. The variance of Z is?							

32.Out of t probability?	he following valu	ues, which	one is not possi	ble in		
a) $P(x) = 1$	b) ∑ x P	(x) = 3				
c) $P(x) = 0.5$	d) P(x)	= -0.5				
	= 2 and E(z) = 4, t		•			
a) 2	b) 6	c) 0	d) Ins	ufficient data		
34.The cov	ariance of two in	ndependent	t random variab	e is		
a) 1	b) 0	c) - 1	d) Un	defined		
35.If Σ P(x)) = k ² – 8 then, th	ne value of	k is?			
a) 0	b) 1	c) 3	d) Ins	ufficient data		
• •	0.5 and x = 4 , th b) 0.5	• •	d) 2			
u) i	5) 0.0	0) 1	<i>a) L</i>			
	crete probability	distributio	n, the sum of all	probabilities		
is always? a) 0	b) Infinite	c) 1	d) Und	efined		
38.If the probability of hitting the target is 0.4, find mean and variance.						
	b) 0.6, 0.	24	c) 0.4, 0.16	d) 0.6, 0.16		
39.If the probability that a bomb dropped from a place will strike the target is 60% and if 10 bombs are dropped, find mean and variance?						
a) 0.6, 0.24		-	•	d) 4, 1.6		
40. Find the	e mean of tossin	g 8 coins.				
a) 2	,) 8	d) 1	al alianuibantiana		
41. What is	s the mean and v	ariance foi	r standard no r m	ai distribution?		

c) 5

d) 7

a) 3

b) 4

•		and varia		•				
42. Variance of a random variable X is given by a) $E(X)$ b) $E(X2)$ c) $E(X2)$ – $(E(X))2$								
	43.Mean of a random variable X is given by a) E(X) b) E(X2) c) E(X2) - (E(X))2 d) (E(X))2							
44.N a) 0	44.Mean of a constant 'a' is a) 0							
	45.Variance of a constant 'a' is a) 0							
46.Find the mean and variance of X?								
	Х	0	1	2	3	4		
	f(x)	1/9	2/9	3/9	2/9	1/9		
a) 2,	4/3	b) 3	, 4/3	(c) 2, 2/3		d) 3, 2/3	

d) 3, 2/3

47. Find the expectation of a random variable X?

	х	0	1	2	3	
	f(x)	1/6	2/6	2/6	1/6	
a) ().5		b) 1.5		c) 2.5	d) 3.5

48. In a Binomial Distribution, if p, q and n are probability of success, failure and number of trials respectively then variance is given by

b) npq c) np2q

d) npq2

49. If 'X' is a random variable, taking values 'x', probability of success and failure being 'p' and 'q' respectively and 'n' trials being conducted, then what is the probability that 'X' takes values 'x'? Use **Binomial Distribution.**

- a) P(X = x) = nCx px qx
- b) P(X = x) = nCx px q(n-x)
- c) P(X = x) = xCn qx p(n-x)
- d) P(x = x) = xCn pn qx

50. If 'p', 'q' and 'n' are probability pf success, failure and number of trials respectively in a Binomial Distribution, what is its Standard **Deviation?**

- a) \sqrt{np} b) \sqrt{pq} c) (np)2 d) \sqrt{npq}