1. The probabili Sunday is:	ty of a leap ye	ar selected at	random contain 53
TO SECURE OF THE PROPERTY OF T	(b) 1/7	(c) 2/7	(d) 53/365
The state of the s	The state of the s		A marble is drawn at
random. The prol			
	THE RESERVE OF THE PROPERTY OF THE PERSON OF		
A STATE OF THE PARTY OF THE PAR		(c) 0/5	0.85. What is the
₹	## (C)		6 0.85. What is the
probability that it			(d) none of those
	THE RESERVE AND ASSESSMENT OF THE PARTY OF THE PARTY.		(d) none of these
			cted from the numbers
(1, 2, 3,,15			(1) 1 10
		(c) 2/15	
5. What are the			
17 (7)	20000000	(c) 8	
	Harming St. Wallett	number selec	ted at random from the
numbers (1,2,3, .			north services
	The same of the sa	* (A) (B) (B)	5 (d) none of these
7. The sum of th			
(a) 2	(b) 1 (c)	0 (d) no	one of these.
8. The following	probabilities	are given; cho	ose the correct answer
for that which is	not possible.		
(a) 0.15	(b) 2/7	(c) 7/5	(d) none of these.
			han the probability of
getting at least to			dagles de la contrata como . ■ Comina do Carto Sento actual do Carto Sento de Carto Sento
(a) 1/4	(b) 3/8	(c) ½	(d) 1/8
10. A letter is ch	osen at rando	m from the let	tters of the word
			e letter chosen has:
10/7): 100-100-100-100-100-100-100-100-100-100	(b) 7/13		(d) none of these.
(4) 0/10	(6) // 10	(0) 1	(a) Hone of these.
11. A dice is thro	CONTRACTOR OF THE PROPERTY OF		etting an even number.
(A) 2/3	(B) 1	(C) 5/6	(D) 1/2
spream series		_	
		e same time. F	ind the probability of
getting both head			
(A) 3/4 (B) 1/4	(C) 1/2	(D) 0	
13. Two dice are sum of 9 is:	thrown simult	aneously. The	probability of getting a

(A) 1/10	(B) 3/10	(C) 1/9	(D) 4/	9
	ds are numbere	ed from 1 to 10	0. Find the	probability of
(A) 3/4	rime number. (B) 27/50	(C) 1/4	(D)	29/100
	a blue ball is do n a bag is:			f the probability n the number of
		his box. Then	the probabi	연기가 보이면 보이는 것이 없는데
mixed thore the probabi	narked with nun oughly. One care lity that the nun (B) 1/10	d is drawn fron nber on card is	n this box ra a perfect s	andomly, then quare.
18. What is (A) 1/7	the probability (B) 53/366	A STATE OF THE PARTY OF THE PAR	Mondays in (D) 7/	[12] [13] [13] [14] [15] [15]
probability	is drawn from a of getting a king (B) 3/26 (C)	g of red suit.		cards. Find the
equally like 1,2,312	e of chance con ly to come to re ,then the probal (B) 1/12	st pointing to bility that it wil	one of the n	umber odd number is:
its outcome result i.e. the probability	consists of tos e each time. Ary ree heads or th that Aryan will I B) 1/2 (C) 1	an wins if all the aree tails and loose the game.	he tosses gi oses otherw	ive the same

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						
(A) 364/365	(B) 31/365	(C) 1/365	(D) 1/133225			
2. Then the p	er <i>x</i> is chosen at ra robability that x ²) 2/5 (C) 3/5	< 2 is?	numbers -2, -1, 0 , 1,			
a marble is di red is 2/3, the		rom the jar, the p white marbles in	d others are white. If robability that it is the jar is:			
Then the prol	r is selected at ran bability that it is a) 4/25 (C) 1/25	multiple of 3 and	60 natural numbers. d 4 is:			
	howing up is prop	1770 750	probability of a face probability of face			
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						
	b) 25.49		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						
		c) $^{1}/_{4}$	d) $^{1}/_{6}$			
30. X is a var	iate between 0 an b) 7	nd 3. The value of	d) ¹ / ₆ E(X ²) is			
a) 8	<i>D)</i> /	() 21	1) 3			
31. The random variables X and Y have variances 0.2 and 0.5 respectively. Let Z= 5X-2Y. The variance of Z is?						

probability			one is not possi	ble in	
33.If E(x) a) 2	= 2 and E(z) = 4 b) 6	t hen E(z – c) 0		ufficient data	
34.The co	variance of two	independen	t random variab	le is	
a) 1	b) 0	c) - 1	d) Un	defined	
35.If Σ P() a) 0	k) = k² - 8 then, b) 1	the value of		sufficient data	
36.If P(x) : a) 1	= 0.5 and x = 4, b) 0.5	then E(x) = 1 c) 4	d) 2		
37.In a dis is always? a) 0		y distributio	n, the sum of all d) Und	probabilities lefined	
38.If the probability of hitting the target is 0.4, find mean and variance.					
a) 0.4, 0.24	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 b) 6, 2.4 c) 0.4, 0.16 d) 4, 1.6					
 40. Find the mean of tossing 8 coins. a) 2 b) 4 c) 8 d) 1 41. What is the mean and variance for standard normal distribution? 					

c) 5

d) 7

a) 3

b) 4

4

c) Mean is 0 and variance is ∞	d) Mean is ∞ and variance is 0
42. Variance of a random varia	ble X is given by

a) Mean is 0 and variance is 1 b) Mean is 1 and variance is 0

a) E(X)

b) E(X2)

c) E(X2) - (E(X))2

d) (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.Mean of a constant 'a' is ______.

a) 0

b) a

c) a/2

d) 1

45.Variance of a constant 'a' is _____

a) 0

b) a

c) a/2

d) 1

46. Find the mean and variance of X?

×	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

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) 0.5

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

- 49. If 'X' is a random variable, taking values 'x', probability of success and failure being 'p' and 'g' 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', 'g' 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) Inpa