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	s 3 red and 2 k	olue marbles. A	marble is drawn at		
random. The prol					
(a) 3/5	(b) 2/5	(c) 0/5	(d) 1/5		
			0.85. What is the		
probability that it	will not rain to	omorrow			
(a) 0.25	(b) 0.145	(c) 3/20	(d) none of these		
4. What is the pr	obability that a	a number selec	ted from the numbers		
(1, 2, 3,,15					
(a) 1/5	(b) 4/5	(c) 2/15	(d) 1/3		
5. What are the	total outcome	s when we thro	w three coins?		
(a) 4	(b) 5	(c) 8	(d) 7		
6. The probability	ty that a prime	e number select	ted at random from the		
numbers (1,2,3, .					
(a) 12/35	(b) 11/35	(c) 13/3	5 (d) none of these		
7. The sum of the	e probability o	of an event and	non event is:		
(a) 2	(b) 1 (c)) 0 (d) no	ne of these.		
8. The following	probabilities	are given; choo	se the correct answer		
for that which is a	not possible.				
(a) 0.15	(b) 2/7	(c) 7/5	(d) none of these.		
9. If three coins	are tossed sim	nultaneously, th	nan the probability of		
getting at least tv	vo heads, is:				
		(c) ½			
10. A letter is ch					
(a) 6/13 (b) 7/13 (c) 1 (d) none of these.					
(a) 6/13	(b) 7/13	(c) 1	(d) none of these.		
11. A dice is thro			etting an even number.		
(A) 2/3	(B) 1	(C) 5/6	(D) 1/2		
12. Two coins are thrown at the same time. Find the probability of getting both heads.					
(A) 3/4 (B) 1/4		(D) 0			
13. Two dice are thrown simultaneously. The probability of getting a					

1

sum of 9 is:

(A) 1/10	(B) 3/10	(C)	1/9 (D) 4/9	
	rds are number rime number. (B) 27/50	(C) 1	_	the probability (D) 29/100	of
•	a blue ball is d			ills .If the proba I, then the numb	-
16. A box o	of 600 bulbs co	ontains 12	defective bu	lbs. One bulb is bability that it i	
(A) 143/15	0 (B) 147	7/150	(C) 1/25	(D) 1/50	
mixed thor		ırd is draw	n from this bard is a perf	aced in a box an box randomly, the ect square. 9/100	
18. What i s (A) 1/7	s the probabilit (B) 53/366	ty of gettin		ys in a leap yea D) 7/366	r?
probability	is drawn from of getting a kin (B) 3/26	ng of red s	uit.	f 52 cards. Find	the
	e of chance co	•	, ,	rrow which is	
equally like 1,2,312	ely to come to i	rest pointi	ng to one of t it will point		er is:
21. A game its outcom- result i.e. to probability	consists of to e each time. A	ossing a or ryan wins i three tails I lose the g	ne rupee coir if all the toss and loses ot	n 3 times and no ses give the san therwise. Then t	ne

-	Kajal are friends. By is the same birt	_	oth will have the			
	(B) 31/365		(D) 1/133225			
2. Then the p	er x is chosen at raprobability that x^2 (C) 3/5	< 2 is?	numbers -2, -1, 0 , 1,			
a marble is d red is 2/3, th		om the jar, the p white marbles in	d others are white. If robability that it is the jar is:			
Then the pro	er is selected at rai bability that it is a B) 4/25 (C) 1/25	multiple of 3 and	60 natural numbers. d 4 is:			
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) $\frac{1}{21}$	$d)\frac{4}{21}$			
	ored by batsman i The standard devia		hes are 50, 70, 82,			
a) 25.79	b) 25.49		d) 25.69			
	lian and mode of t days 15, 11, 9, 5,	_	eived on 9			
a) 13, 15	b) 13, 18	c) 18, 15	d) 13, 16			
29. A coin is 3 cases is		s. The probability	that tails turn up in			
(a) $\frac{1}{2}$	b) $^{1}/_{3}$	c) $\frac{1}{4}$	d) $^{1}/_{6}$			
3 0. X is a var a) 8	riate between 0 an b) 7		E(X²) is			
	om variables X and Let Z= 5X-2Y. Th					

a) 3	b) 4	c) 5	(d) 7	
probability	•	•	one is not possi	ble in
a) 2	= 2 and E(z) = b) 6	c) 0		ufficient data
a) 1	b) 0	c) – 1		defined
35.If Σ P(a) 0	x) = k² – 8 the b) 1	n, the value of		ufficient data
, ,	= 0.5 and x = 4 b) 0.5	l, then E(x) = 3 c) 4	(d) 2	
37.In a dis is always? a) 0	-	ity distributio	n, the sum of all d) Und	
38.If the pariance.			get is 0.4, find m c) 0.4, 0.16	
39.If the	/ probability tha	t a bomb drop	pped from a place pped, find mean	e will strike the

c) 0.4, 0.16

41. What is the mean and variance for standard normal distribution?

d) 1

d) 4, 1.6

(b) 6, 2.4

c) 8

40. Find the mean of tossing 8 coins.

(b) 4

a) 2

a) 0.6, 0.24

			, ,		nd variance and varian	
42.Variar a) E(X)	n ce of a ra r b) E	ndom var (X2)	_	is given k (2) - (E()		d) (E(X))2
43 Mean a) E(X)	of a rando b) E(X		_	iven by _ 2) - (E(X)))2	d) (E(X))2
44.Mean (a) 0	of a consta b) a	nt 'a' is ₋	c) a/2	·	d) 1	
45. Varian (a) 0	ce of a cor b) a		c) a,		d) 1	
46.Find th	ne mean an	d varian	ce 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	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

- 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}