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,						
(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.						
8. The following probabilities are given; choose the correct answer						
for that which is not possible.						
(a) 0.15 (b) 2/7 (c) 7/5 (d) none of these.						
9. If three coins are tossed simultaneously, than the probability of						
getting at least two heads, is:						
(a) 1/4 (b) 3/8 (c) ½ (d) 1/8						
10. A letter is chosen at random from the letters of the word						
♦ASSASSINATION •. The probability that the letter chosen has:						
(a) 6/13 (b) 7/13 (c) 1 (d) none of these.						
(a) 0/13 (b) 7/13 (d) Holle of these.						
11. A dice is thrown. Find the probability of getting an even number.						
(A) 2/3 (B) 1 (C) 5/6 (D) 1/2						
(A) 2/3 (B) 1 (C) 3/0 (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 (C) 1/2 (D) 0						
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 numbe ime number.		l to 100. Fi	nd the probability	of
	(B) 27/50		/4	(D) 29/100	
of drawing blue balls in	a blue ball is n a bag is:	double tha	t of a red b	balls .If the proba all, then the num	-
(A) 5	(B) 10	(C) 15	(D) 2	20	
taken out a	t random fror	n this box.	Then the p	bulbs. One bulb is probability that it (D) 1/50	
(A) 140/100	י (ט)	77 100	(0) 1/20	(D) 1/30	
mixed thoro	oughly. One c	ard is drav umber on	n from thi	placed in a box ar s box randomly, t erfect square. 19/100	
18. What is	the probabil	itv of aetti	na 53 Mon	days in a leap yea	ar?
(A) 1/7	<u> </u>	•	•	•	
probability	is drawn fron of getting a k (B) 3/26	ing of red	suit.	of 52 cards. Find	d the
	, ,		, ,		
equally like 1,2,312	ly to come to	rest point bability tha	ing to one o	n arrow which is of the number nt to an odd num (D) 5/12	ber is:
its outcome result i.e. th probability	e each time. A	Aryan wins three tails Il lose the	if all the to and loses	oin 3 times and nosses give the sare otherwise. Then	ne

same birthday	is the same birt	-	
(A) 364/365	(B) 31/365	(C) 1/365	(D) 1/133225
2. Then the pro	x is chosen at raobability that x² < (C) 3/5	< 2 is?	ımbers -2, -1, 0 , 1,
a marble is dra red is 2/3, the	awn at random fr	om the jar, the pro white marbles in t	_
Then the proba		multiple of 3 and) natural numbers. 4 is:
	owing up is prop s is?	ortional to n. The	obability of a face probability of face
a) $\frac{1}{7}$	b) $\frac{5}{42}$	c) $\frac{1}{21}$	d) $\frac{4}{21}$
	ed by batsman in e standard devia	n 5 one day match	es are 50, 70, 82,
		c) 25.29	d) 25.69
	an and mode of t ays 15, 11, 9, 5,	he messages rece 18 4 18 13 17	eived on 9
	b) 13, 18		d) 13, 16
29. A coin is t 3 cases is	-	s. The probability	that tails turn up in
a) $^{1}/_{2}$	b) $^{1}/_{3}$	c) ¹ / ₄	d) $^{1}/_{6}$
	ote between 0 an	d 3. The value of E c) 27 d)	E(X²) is . 9
		d Y have variances e variance of Z is?	

a) 3	b) 4	c) 5	d) 7	
probability?		•	one is not possib	ole in
a) $P(x) = 1$ c) $P(x) = 0.5$	b) ∑ x F d) P(x	P(x) = 3) = - 0.5		
33.If E(x) = a) 2	2 and E(z) = 4, b) 6	c) 0		fficient data
34.The cova	ariance of two i	ndependent	random variable	e is
a) 1	b) 0	c) – 1	d) Und	lefined
35.If Σ P(x) a) 0	= k ² - 8 then, tb) 1	the value of l		ufficient data
, ,	0.5 and x = 4, t b) 0.5	• •	d) 2	
37.In a disc is always?	rete probability	distribution	, the sum of all $_{\parallel}$	probabilities
•	b) Infinite	c) 1	d) Unde	efined
38.If the pr variance.	obability of hit	ting the targe	et is 0.4, find me	ean and
a) 0.4, 0.24	b) 0.6, 0).24	c) 0.4, 0.16	d) 0.6, 0.16
-	% and if 10 bon		ed from a place ped, find mean a l, 0.16	
a) 2		c) 8	d) 1 standard norm a	ıl distribution?

		and varia and varia					
		e of a rand b) E(X					
		a random b) E(X2		_	•		d) (E(X))2
	lean of a	a constan <mark>b)</mark> a	t 'a' is	c) a/2	- ·	d) 1	
45.V a) 0	/ariance	of a cons b) a	tant 'a' is			d) 1	
46.F	ind the i	mean and	variance	of X?			
F	Х	0	1	2	3	4	
	f(x)	1/9	2/9	3/9	2/9	1/9	

47. Find the expectation of a random variable X?

b) 3, 4/3

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

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

c) 2, 2/3

d) 3, 2/3

a) 2, 4/3

a)



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
- 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}