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.						
8. The following probabilities are given; choose the correct answer						
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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/	<mark>'9</mark> ([0) 4/9
		ds are number ime number.	ed from 1 t	o 100. Find	the probability of
	(A) 3/4		(C) 1/4	·	(D) 29/100
	_	a blue ball is d a bag is:			lls .If the probability , then the number of
		random from ve bulb is:		hen the pro	bs. One bulb is bability that it is (D) 1/50
	mixed thoro		rd is drawn ımber on ca	from this b rd is a perfo	-
	18. What is (A) 1/7	-		53 Monday ([ys in a leap year? D) 7/366
	probability of	is drawn from of getting a kir (B) 3/26 (0	ng of red su	it.	52 cards. Find the
p=1/2	equally likel 1,2,312	e of chance co ly to come to r then the proba B) 1/12	est pointing ability that i	g to one of t	
	its outcome result i.e. th probability t	each time. Ar	yan wins if three tails a lose the ga	all the toss nd loses otl ime.	3 times and noting es give the same herwise. Then the

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				
2. Then the pro	x is chosen at ra obability that x² < 2/5 (C) 3/5	2 is?	umbers -2, -1, 0 , 1,				
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) $\frac{4}{21}$				
	ed by batsman ir e standard devia		hes are 50, 70, 82,				
	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.							
a) 13, 15			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) $^{1}/_{3}$		d) $^{1}/_{6}$				
	ate between 0 and b) 7		E(X ²) is <mark>) 9</mark>				
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 the probability?	he following valu	es, which o	one is not pos	sible in			
a) $P(x) = 1$	b) ∑ x P(d) P(x) =	x) = 3					
c) $P(x) = 0.5$	d) P(x) =	= -0.5					
33.If E(x) =	2 and E(z) = 4, tl	hen E(z – x	<u>r</u>) =?				
a) 2	b) 6	c) 0	d) In	sufficient data			
34.The cova	ariance of two in	dependent	random varia	ble is			
a) 1	b) 0	c) - 1	d) U	ndefined			
35.If Σ P(x) a) 0	= k² – 8 then, th b) 1			nsufficient data			
• •	0.5 and x = 4, th b) 0.5	• •	d) 2				
37.In a discrete probability distribution, the sum of all probabilities is always?							
a) 0	b) Infinite	c) 1	d) Ur	ndefined			
38.If the probability of hitting the target is 0.4, find mean and variance.							
	b) 0.6, 0.2	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) $4, 1.6$							
a) 2	e mean of tossing b) 4 c) the mean and va	8	d) 1 standard nor i	mal distribution?			

c) 5

d) 7

a) 3

b) 4

<mark>a) Mean is</mark> c) Mean is					nd variance and varian		
42.Varian (a) E(X)					oy <mark>())2</mark>	d) (E(X))2	
43.Mean of a random variable X is given by a) E(X)							
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	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}