1.	1. The probability of a leap year selected at random contain 53						
Su	nday is	:					
	(a) 5	3/366	(b) 1/7	(c) 2/		(d) 53/365	
2.	A bag	contains	3 red and 2	blue mar	bles. A n	narble is drawn at	
rai	ndom.	The prob	ability of dr	awing a bl	ack ball	is:	
	(a) 3	/5	(b) 2/5	(c) 0/	5	(d) 1/5	
3.	The pr	obability	that it will	rain tomor	row is 0.	85. What is the	
pre	obabilit	y that it	will not rain	tomorrow			
						(d) none of these	
4.	14					d from the numbers	
			is a multipl				
			(b) 4/5		15	(d) 1/3	
5.						three coins?	
			(b) 5				
6.						d at random from the	
			35) is :				
					13/35	(d) none of these	
7.						on event is:	
			(b) 1 (
8.	7 8 1 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					e the correct answer	
			ot possible.		M. For School		
	(a) 0	.15	(b) 2/7	(c) 7	/5	(d) none of these.	
9.						n the probability of	
			o heads, is:			State and the state of the stat	
3	_		(b) 3/8			(d) 1/8	
10						rs of the word	
						etter chosen has:	
		6/13	A Decision of the Control of the Con			(d) none of these.	
	(-)		(5) // (6		(0)	(a) none or mese.	
11	A dice	is throw	vn. Find the	probabilit	v of gett	ing an even number.	
	2/3		(B) 1			0) 1/2	
1,,	, 2,0		(0)	(0) 0/0	4	2) 1/2	
12. Two coins are thrown at the same time. Find the probability of							
		th head					
7	And the late of th		(C) 1/2		(D) 0		
1.5					NEW TO		
13	. Two d	ice are t	thrown simu	ltaneously	. The pr	obability of getting a	

1

sum of 9 is:

a) np	b) npq	c) np2q	d) npq2
	f 'X' is a random variab ess and failure being 'p		

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}

a) 3	b) 4	c) 5	d) 7	
32.Out of	The state of the s	values, whic	h one is not poss	ible in
a) $P(x) = 1$	1 b) Σ	x P(x) = 3		
c) $P(x) = 0$	The second secon	(x) = -0.5		
33.If E(x)	= 2 and E(z) =	4. then E(z -	- x) =?	
a) 2	b) 6	c) 0		ufficient data
34.The co	ovariance of two	o independe	nt random variab	le is
a) 1	b) 0	c) - 1	d) Un	defined
35.If Σ P	$(x) = k^2 - 8 \text{ ther}$, the value o		
a) 0	b) 1	c) 3	d) In:	sı" data
36.If P(x)	= 0.5 and $x = 4$, then E(x) =	?	4/6
a) 1	b) 0.5	c) 4	d) 2	
37.In a di		ity distributi	on, the sum of all	probabilities
a) 0	b) Infinite	c) 1	d) Und	defined
38.If the variance.	•	itting the ta	rget is 0.4, find m	ean and
a) 0.4, 0.2	b) 0.6	, 0.24	c) 0.4, 0.16	d) 0.6, 0.16
			pped from a plac	
a) 0.6, 0.2	b) 6, 2	(4 c)	0.4, 0.16	d) 4, 1.6
40. Find t	he mean of tos	sing 8 coins		
a) 2	b) 4	c) 8	d) 1	
41. What	is the mean an	d variance f	or standard norm	al distribution?

	nd Kajal are f iday is the sa		(A) (B) (B) (B) (B) (B) (B) (B) (B) (B) (B	t both will have	the
			(C) 1/365	(D) 1/	133225
2. Then th	nber x is chose probability (B) 2/5	that x2 < 2	2 is?	e numbers -2, -	1, 0 , 1,
a marble is red is 2/3,	s drawn at ra	ndom fro nber of w		and others are or probability that in the jar is:	
Then the p		at it is a n	nultiple of 3 a	t 50 natural nu and 4 is:	3/6
	s showing up			t probability of he probability o	
a) $\frac{1}{7}$	b) $\frac{5}{42}$		c) $\frac{1}{21}$	d) 4	
			5 one day ma	tches are 50, 7	0, 82,
a) 25.79			c) 25.29	d) 25.69	
			e messages r 3, 4, 18, 13, 13		
a) 13, 15	b) 13,	18	c) 18, 15	d) 13, 16
3 cases is			A STATE OF STREET	ity that tails tu	S. S. CHILLEN S. S. C.
a) 1/2	b) 1/	3	c) 1/4	of E(X ²) is	d) $\frac{1}{6}$
a) 8	b) 7	c)	27	d) 9	
31.The ran	ndom variabl	es X and	Y have varian	ces 0.2 and 0.5	5

respectively. Let Z= 5X-2Y. The variance of Z is?

a) Mean is c) Mean is						
42.Variano	ce of a ra	ndom va	riable X	is given b	у	- •
a) E(X) b) E(X2)		c) $E(X2) - (E(X))2$			d) (E(X))2	
43.Mean	of a rando	m variab	le X is g	iven by _		
a) E(X)						d) (E(X))2
44.Mean o a) 0	f a consta	ant 'a' is .				
a) 0	b) a		c) a/2 d) 1			
45.Varianc		nstant 'a'			d) 1	
46.Find the	mean ar	nd 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	3, 4/3	c) 2, 2/3	3	d) 3, 2/3		
47.Find the	expecta	tion of a	random	variable !	X?	

	x	0	1	2	3	
	f(x)	1/6	2/6	2/6	1/6	
a) ().5		b) 1.5		С	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

(A) 1/10	(B) 3/10	(C) 1/9	(D)	4/9				
	rds are number	ed from 1 to	100. Find th	e probability of				
(A) 3/4	(B) 27/50	(C) 1/4	(1	0) 29/100				
of drawing blue balls i	a blue ball is do n a bag is:	ouble that of	a red ball, t	.If the probability hen the number of				
(A) 5	(B) 10	(C) 15	(D) 20					
taken out a	of 600 bulbs con at random from tive bulb is:	this box. The						
	2012 0 5							
mixed thor	marked with nu oughly. One ca ility that the nu (B) 1/10	rd is drawn f	rom this box	randomly, then t square.				
18. What i (A) 1/7	s the probabilit (B) 53/366	y of getting 5		in a leap year? 7/366				
	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 like	A STATE OF THE PARTY OF THE PAR	est pointing	to one of the	e number an odd number is				
its outcom result i.e. t probability	e each time. Ar	yan wins if a hree tails an lose the gan	II the tosses d loses othe ne.	times and noting give the same rwise. Then the				