		(2) (19)				
1. The probability of a leap year selected at random contain 53						
Sunday is:						
		(c) $2/7$				
2. A bag contain	s 3 red and 2 ${f k}$	olue marbles. A	A marble is drawn at			
random. The pro						
(a) 3/5	(b) 2/5	(c) $0/5$	(d) 1/5			
3. The probabilit	y that it will ra	in tomorrow is	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 number selec	cted 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 outcome	s when we thro	w three coins?			
(a) 4	(b) 5	(c) 8	(d) 7			
			ted at random from the			
numbers (1,2,3, .						
		(c) 13/3	5 (d) none of these			
7. The sum of th						
	_) 0 (d) no				
` '	` '		ose the correct answer			
for that which is	-	<i>3</i> ,				
		(c) 7/5	(d) none of these.			
			han the probability of			
getting at least tv		,,	, p, o.			
_	(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:						
	_		(d) none of these.			
(d) 0/ 10	(b) 77 13	(0) 1	(a) Hone of these.			
11 A dice is thro	wn Find the n	robability of ge	etting an even number.			
(A) 2/3	_	(C) 5/6	_			
(A) 2/3	(D) 1	(0) 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		(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 number ime number.	ed from 1 to 1	00. Find the	probability of		
(A) 3/4	(B) 27/50	(C) 1/4	(D)	29/100		
_	a blue ball is do	ouble that of a		f the probability on the number of		
16. A box of	f 600 bulbs con random from ve bulb is:	` í ntains 12 defe	ective bulbs. In the probabi			
mixed thoro	lity that the nu	rd is drawn fro	om this box r is a perfect s	andomly, then square.		
18. What is (A) 1/7	the probability (B) 53/366	•	Mondays in (D) 7,			
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 likel 1,2,312 ,	e of chance cor by to come to re then the proba B) 1/12	est pointing to ability that it w	o one of the r	number n odd number is:		
21. A game consists of tossing a one rupee coin 3 times and noting its outcome each time. Aryan wins if all the tosses give the same result i.e. three heads or three tails and loses otherwise. Then the probability that Aryan will lose the game. (A) 3/4 (B) 1/2 (C) 1 (D) 1/4						

22. Riya and Kajal are friends. Probability that both will have the same birthday is the same birthday is:						
	65 (B) 31/	•	/365	(D) 1/133225		
2. Then the	ber <i>x</i> is chosen e probability that (B) 2/5	t x²< 2 is?		nbers -2, -1, 0 , 1,		
a marble is red is 2/3,	ontains 24 marb s drawn at rando then the numbe B) 6 (C) 8	om from the jate of white ma	ar, the prob	_		
Then the p	ber is selected a probability that it (B) 4/25 (C)	t is a multiple	of 3 and 4	natural numbers. 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) $\frac{4}{21}$		
	scored by batsm . The standard o		-	s 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	•	c) 18	•	d) 13, 16		
29. A coin is tossed up 4 times. The probability that tails turn up in 3 cases is						
a) $\frac{1}{2}$ 30. X is a v		0 and 3. The	value of E(X			
31.The ran	ndom variables) ly. Let Z= 5X-2Y	X and Y have	variances 0			

32.Out of the probability?	ne following valu	ies, which	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, t	hen E(z – ː	κ) =?	
a) 2	b) 6	c) 0	d) In	sufficient data
34.The cova	ariance of two in	dependent	t random varia	ble is
a) 1	b) 0	c) - 1	d) U	Indefined
35.If Σ P(x) a) 0	= k ² – 8 then, th b) 1			nsufficient data
• •	0.5 and x = 4, th b) 0.5	• •	d) 2	
37.In a disc is always?	rete probability	distributio	n, the sum of a	III probabilities
a) 0	b) Infinite	c) 1	d) Ur	ndefined
38.If the pr variance.	obability of hitti	ng the targ	et is 0.4, find	mean and
	b) 0.6, 0.2	24	c) 0.4, 0.16	d) 0.6, 0.16
-	-	bs are dro		nce will strike the an and variance? d) 4, 1.6
a) 2		8	d) 1 r standard nor i	mal distribution?

c) 5

d) 7

a) 3

b) 4

			I. \ N.A.			• - 0
a) Mean is 0 c) Mean is 0			•			
c) Wearing o	and van		o uj ivie		and varian	CC IS U
42.Variance	of a ran	dom var	iable X i	s given b	у	. •
a) E(X)	b) E(X2)	c) E(X	(2) - (E(X))	())2	d) (E(X))2
12 Moon of	o rondor	n voriobl	lo V io gi	von hv		
43.Mean of a) E(X)			_	-		d) (E(X))2
ω) – (//)	2) =()	· -)	0) =(/12	-) (=(/\)	<i>)</i> –	a) (=(/\;)/=
44.Mean of a				<u> </u>		
a) 0	b) a		c) a/2		d) 1	
AE Vorience	of a con	ctant 'a'	is			
45. variance	UI a CUII	Stallt a				
45. Variance a) 0	b) a	Stailt a	c) a/		d) 1	
a) 0	b) a		c) a/		d) 1	
	b) a		c) a/		d) 1	
a) 0 46.Find the I	b) a	d variand	c) a/ ce of X?	2	7	
a) 0	b) a		c) a/		d) 1	
a) 0 46.Find the I	b) a	d variand	c) a/ ce of X?	2	7	
a) 0 46.Find the I	b) a	d variand	c) a/ce of X?	3	4	
a) 0 46.Find the I	b) a	1 2/9	c) a/ce of X?	3	1/9	d) 3, 2/3

47. Find the expectation 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		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}