1.	The proba	bility o	f a leap y	ear se	elected a	at rand	dom con	tain 53
Su	nday is:							
	(a) 53/3	66	(b) 1/7	(c) 2/7	(0	d) 53/36	5
2.	A bag cont	ains 3	red and 2	blue	marbles	. A m	arble is	drawn at
rar	ndom. The	probabi	ility of dra	awing	a black	ball is	s:	
	(a) $3/5$	(1	b) 2/5	(c) 0/5	(d) 1/5	
3.	The probal	bility th	at it will i	rain to	morrow	is 0.8	85. What	t is the
pro	bability the	at it wil	l not rain	tomo	rrow			
0.E.0	(a) 0.25	(b	0.145	i k	(c) 3/20	((d) none	of these
4.		2000					5 22	ne numbers
(1,	2, 3,	,15) is	a multiple	e of 4	?			
200	(a) 1/5	10.00					(d) 1/3	
	What are t							ins?
	2		5) 5					
6.							1	om from the
nu	mbers (1,2	,3,	35) is :					
		5 8764			(c) 13	/35	(d) non	e of these
7.	The sum o		S7 (0)				(a) (a) (b)	
		And the second s	1 (
8.								ect answer
	that which							
) 2/7		c) 7/5	(d) none	of these.
9.	If three co							
	tting at leas						ovatavaata ∎tan (ta	
	(a) 1/4		17.0		1/2		(d) 1/8	3
	. À letter i						` '	
	ASSASSINA							
								ne of these.
	(-)		(0) 17 10		(-)	-	(0)	
11	A dice is t	hrown.	Find the	proba	bility of	aettii	ng an ev	en number.
	2/3		3) 1	-T/	100			
(, ,)	,	γ.	٠, .	(0)	0, 0	10) 172	
12. Two coins are thrown at the same time. Find the probability of								
	tting both h							
	3/4 (B)		(C) 1/2		(D) (0		
()			(-) - , -		(-)			
13	13. Two dice are thrown simultaneously. The probability of getting a							

sum of 9 is:

(A) 1/10	(A) 1/10 (B) 3/10		(D) 4/	9					
HOUSE AND ACCUMENTATION TO CONTROL	14. 100 cards are numbered from 1 to 100. Find the probability of getting a prime number.								
(A) 3/4	(B) 27/50	(C) 1/4	(D)	29/100					
	a blue ball is do n a bag is:			f the probability n the number of					
		this box. Then	the probabi	프라이어 보다는 사람 그렇게 하게 된 것이다.					
mixed thor	narked with nur oughly. One car ility that the nur (B) 1/10	d is drawn fron	n this box r	andomly, then square.					
18. What is (A) 1/7	s the probability (B) 53/366	of getting 53 (C) 2/7	Mondays in (D) 7/	AND THE PROPERTY OF THE PROPER					
probability	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								
20. A game of chance consists of spinning an arrow which is equally likely to come to rest pointing to one of the number 1,2,312, then the probability that it will point to an odd number is: (A) 1/6 (B) 1/12 (C) 7/12 (D) 5/12									
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									

2

22. Riya and Kajal are friends. Probability that both will have the same birthday is the same birthday is:							
	(B) 31/365		(D) 1/133225				
2. Then the pro	x is chosen at rabbability that x ² < (C) 3/5	2 is?	numbers -2, -1, 0 , 1,				
a marble is dra red is 2/3, then	wn at random fr	om the jar, the p white marbles in	d others are white. If robability that it is the jar is:				
Then the proba		multiple of 3 an	50 natural numbers. d 4 is:				
with n dots sho showing 4 dots	wing up is prop	And a second	probability 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		hes are 50, 70, 82,				
a) 25.79	b) 25.49	c) 25.29	d) 25.69				
		he messages red 18, 4, 18, 13, 17.	ceived on 9				
	b) 13, 18		d) 13, 16				
29. A coin is to 3 cases is		s. The probability	that tails turn up in				
19 m 10 m	te between 0 an	c) $\frac{1}{4}$ d 3. The value of $\frac{27}{4}$	d) $\frac{1}{6}$ E(X²) is				
		d Y have variance e variance of Z is					

3

1	_
~ 1	•
aı	

32.Out of the following values, which one is not possible in probability?

a)
$$P(x) = 1$$

b)
$$\sum x P(x) = 3$$

c)
$$P(x) = 0.5$$

a)
$$P(x) = 1$$

b) $\sum x P(x) = 3$
c) $P(x) = 0.5$
d) $P(x) = -0.5$

33.If E(x) = 2 and E(z) = 4, then E(z - x) = ?

d) Insufficient data

34. The covariance of two independent random variable is

d) Undefined

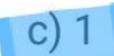
35.If $\Sigma P(x) = k^2 - 8$ then, the value of k is?

d) Insufficient data

36.If P(x) = 0.5 and x = 4, then E(x) = ?

37.In a discrete probability distribution, the sum of all probabilities is always?

b) Infinite



d) Undefined

38.If the probability of hitting the target is 0.4, find mean and variance.

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

40. Find the mean of tossing 8 coins.

a) 2

b) 4

c) 8

d) 1

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

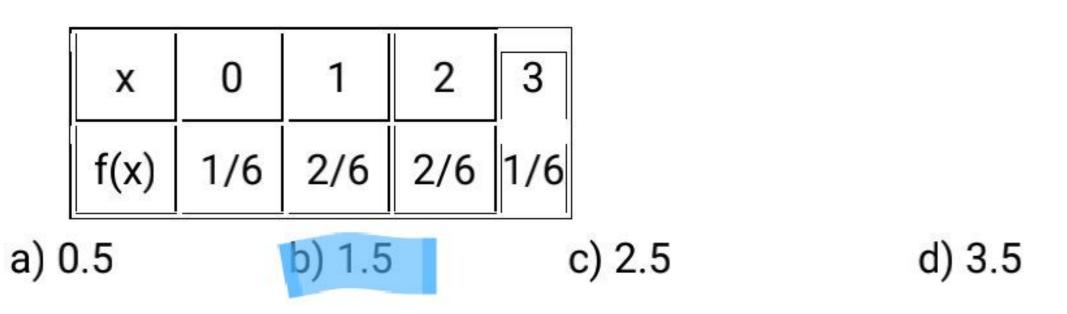
		1 b) Mean is 1 a s ∞ d) Mean is α		
42.Variance	of a random v b) E(X2)	ariable X is given c) E(X2) - (E(A16.5	d) (E(X))2
43.Mean of a	random varia b) E(X2)	ble X is given by c) E(X2) - (E(X		d) (E(X))2
44.Mean of a a) 0	constant 'a' is	c) a/2	d) 1	
45.Variance o	f a constant 'a b) a	a' is . c) a/2	d) 1	

46. Find the mean and variance of X?

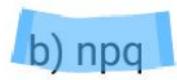
X	0	1	2	3	4
f(x)	1/9	2/9	3/9	2/9	1/9

a) 2, 4/3 b) 3, 4/3 c) 2, 2/3 d) 3, 2/3

47. Find the expectation of a random variable X?



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) 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}