(A) 1/10	(B) 3/10	(C) 1/9	(D) 4/9				
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) 29/1	00			
	ontains 5 red ba a blue ball is do a bag is: (B) 10	uble that of a re		-			
16. A box of taken out at non-defecti	f 600 bulbs cont t random from t	ains 12 defect nis box. Then t	ive bulbs. One l he probability t	-			
17. Cards marked with numbers 2 to 101 are placed in a box and mixed thoroughly. One card is drawn from this box randomly, then the probability that the number on card is a perfect square. (A) 9/100 (B) 1/10 (C) 3/10 (D) 19/100							
18. What is (A) 1/7	the probability (B) 53/366	_	_	ap year?			
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							

32.Out of the following values, which one is not possible in probability?								
a) $P(x) = 1$ c) $P(x) = 0.5$	b) ∑ x P(x) =	x) = 3 = - 0.5						
33.If E(x) =	2 and E(z) = 4, tl	nen E(z – x)	=?					
a) 2	b) 6	c) 0	d) Insu	ufficient data				
34. The covariance of two independent random variable is								
a) 1	b) 0	c) - 1	d) Und	defined				
35.If Σ P(x)	$= k^2 - 8$ then, th	e value of k	is?					
	b) 1	c) 3		ufficient data				
	0.5 and x = 4, the 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) Undefined					
38.If the pr variance.	obability of hittir	g the target	is 0.4, find me	ean and				
	b) 0.6, 0.2	24 (c) 0.4, 0.16	d) 0.6, 0.16				
(obability that a b % and if 10 bomb b) 6, 2.4		ed, find mean					
40. Find the	mean of tossing	8 coins.						
a) 2	b) 4 c)		d) 1					
41. What is	the mean and va	ariance for s	tandard norma	al distribution?				

c) 5

b) 4

d) 7

a) 3

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}