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					
random. The probab	oility of drawi	ng a black ball	is:		
(a) 3/5	(b) 2/5	(c) 0/5	(d) 1/5		
3. The probability tl	hat it will rain	tomorrow is 0	.85. What is the		
probability that it wi					
(a) 0.25 (l	b) 0.145	(c) 3/20	(d) none of these		
4. What is the proba	ability that a i	number selecte	ed from the numbers		
(1, 2, 3,,15) is	a multiple of	f 4?			
(a) 1/5 (b) 4/5	(c) 2/15	(d) 1/3		
5. What are the total	al outcomes	when we throw	three coins?		
(a) 4 (b) 5	(c) 8	(d) 7		
6. The probability t	hat a prime n	umber selecte	d 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 p					
(a) 2 (b)	(c) (c)) (d) none	e of these.		
8. The following pr	obabilities ar	e given; choos	e the correct answer		
for that which is not	possible.				
(a) 0.15 (l	b) 2/7	(c) $7/5$	(d) none of these.		
9. If three coins are	tossed simu	Itaneously, tha	n the probability of		
getting at least two	heads, is:				
(a) 1/4 (b) 3/8	(c) ½	(d) 1/8		
10. A letter is chos	en at random	from the lette	rs of the word		
ASSASSINATION	The proba	ability that the	letter chosen has:		
(a) 6/13	(b) 7/13	(c) 1	(d) none of these.		
11. A dice is thrown	. Find the pro	bability of gett	ing an even number.		
(A) 2/3 ((B) 1 (F	C) 5/6 (D) 1/2		
12. Two coins are thrown at the same time. Find the probability of					
getting both heads.	(-)	A			
(A) 3/4 (B) 1/4	(C) 1/2	(D) 0			
13. Two dice are thrown simultaneously. The probability of getting a					

sum of 9 is:

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				
23. A number x is chosen at random from the numbers -2, -1, 0, 1, 2. Then the probability that $x^2 < 2$ is? (A) $1/5$ (B) $2/5$ (C) $3/5$ (D) $4/5$							
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) $\frac{4}{21}$				
27. Runs scored by batsman in 5 one day matches are 50, 70, 82, 93, and 20. The standard deviation is							
		c) 25.29	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.							
	b) 13, 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 varia	b) $^1\!/_3$ te between 0 and	c) $\frac{1}{4}$ d 3. The value of E s) 27					
31. The random variables X and Y have variances 0.2 and 0.5 respectively. Let Z= 5X-2Y. The variance of Z is?							

•						d variance i and varianc	
a) E(X) b) E(X2) c) E(X2) – (E(X))2							d) (E(X))2
	43.Mean of a random variable X is given by a) $E(X)$ b) $E(X2)$ c) $E(X2) - (E(X))2$ d) $E(X)$ 2						
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		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