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 red and 2 blue marbles. A marble is drawn at				
random. The probability of drawing a black ball is :				
(a) 3/5 (b) 2/5 ( <mark>c) 0/5</mark> (d) 1/5				
3. The probability that it will rain tomorrow is 0.85. What is the				
probability that it will not rain tomorrow				
(a) 0.25 (b) 0.145 (c) 3/20 (d) none of these <b>4.</b>				
What is the probability that a number selected 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 outcomes when we throw three coins?				
(a) 4 (b) 5 (c) 8 (d) 7				
6. The probability that a prime number selected 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 probability of an event and non event is :				
(a) 2 (b) 1 (c) 0 (d) none of these.				
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<ul> <li>8. The following probabilities are given; choose the correct answer for that which is not possible. <ul> <li>(a) 0.15</li> <li>(b) 2/7</li> <li>(c) 7/5</li> <li>(d) none of these. 9.</li> </ul> </li> <li>If three coins are tossed simultaneously, than the probability of getting at least two heads, is: <ul> <li>(a) 1/4</li> <li>(b) 3/8</li> <li>(c) ½</li> <li>(d) 1/8</li> </ul> </li> <li>10. A letter is chosen at random from the letters of the word ASSASSINATION. The probability that the letter chosen has: <ul> <li>(a) 6/13</li> <li>(b) 7/13</li> <li>(c) 1</li> <li>(d) none of these.</li> </ul> </li> <li>11. A dice is thrown. Find the probability of getting an even number.</li> </ul>				
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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	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) :	29/100	
15. A bag contains 5 red balls and some blue balls .If the probability of drawing a blue ball is double that of a red ball, then the number of blue balls in a bag is:					
(A) 5	(B) 10	` ,	(D) 20		
16. A box of 600 bulbs contains 12 defective bulbs. One bulb is taken out at random from this box. Then the probability that it is non-defective bulb is:					
(A) 143/150	) (B) 147	<mark>7/150</mark> (C	2) 1/25	(D) 1/50	
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	<mark>. (A) 9/100</mark>	(B) 1/10	(C) 3/10	(D) 19/100	
<b>18.</b> What is the probability of getting <b>53</b> Mondays in a leap year?  (A) 1/7  (B) 53/366  (C) 2/7  (D) 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) $1/13$					
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) $5/12$ p=1/2					
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. (B) 1/2 (A) 3/4(C) 1 22. Riya and Kajal are friends. Probability that both will have the same birthday is the same birthday is: (D) 1/133225 (A) 364/365 (B) 31/365 (C) 1/365 23. A number x is chosen at random from the numbers -2, -1, 0, 1, 2. Then the probability that  $x^2 < 2$  is? (B) 2/5(C) 3/5(A) 1/5(D) 4/524. 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) (B) 6(C) 8 (D)710 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? 1 5 1 a) b) c) 7 42 21 27. Runs scored by batsman in 5 one day matches are 50, 70, 82, 93, and 20. The standard deviation is \_ b) 25.49 a) 25.79 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. d) 13, 16 a) 13, 15 b) 13, 18 c) 18, 15 29. A coin is tossed up 4 times. The probability that tails turn up in 3 cases is \_\_\_\_\_.

a) $^{1}/^{2}$	b) $^{1}/_{3}$		c) <sup>1</sup> /4	d)	
1/6					
30. X is a variate between 0 and 3. The value of E(X <sup>2</sup> ) is					
a) 8	b) 7	c) 27	<mark>d) 9</mark>		
			e variances 0.2 a	ınd 0.5	
-	y. Let Z= 5X-2Y				
a) 3	b) 4	,	d) 7		
	_	lues, which	one is not possi	ble in	
probability		·			
a) $P(x) = 1$	b) ∑ x F	P(x) = 3			
c) $P(x) = 0.5$	5 d) P(x)	= -0.5			
33 If F(x) =	= 2 and E(z) = 4,	then F(z –	x) =?		
a) 2	b) 6	•	d) Ins	ıfficient data	
	,	,	t random variab		
	•				
a) 1	b) 0	c) - 1	d) Un	defined	
35.If Σ P(x	) = k <sup>2</sup> – 8 then, t	he value of	•		
a) 0	b) 1	<mark>c) 3</mark>	d) Ins	ufficient data	
36.If P(x) =	0.5 and $x = 4$ , t	hen E(x) = ?			
a) 1	b) 0.5	c) 4	<mark>d) 2</mark>		
37 In a died	erata probability	dietributio	n, the sum of all	nrobabilities is	
always?	rete probability	นเอนเมนเบ	ii, tile Suili Oi ali	probabilities is	
a) 0	b) Infinite	c) 1	d) Und	efined	
u) 0	b) iiiiiiiiiiiii	<u> </u>	d) Ond	Cilica	
38.If the probability of hitting the target is 0.4, find mean and					
variance.					
a) 0.4, 0.24	<mark>b) 0.6, 0</mark>	<mark>.24</mark>	c) 0.4, 0.16	d) 0.6, 0.16	
00.16.1		L L .			
	-	-	ped from a place		
-			pped, find mean		
a) 0.6, 0.24	b) 6, 2.4	c) U	.4, 0.16	d) 4, 1.6	

40. Find the mean of tossing 8 coins.

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•		<mark>b) 4</mark> the mean	•		d) 1 <b>standard</b> ı	normal d	istribution?
				•	n is 1 and v an is ∞ and		
					given by _ <mark>) - (E(X))2</mark>		d) (E(X))2
	<b>43.Mean of a random variable X is given by a)</b> E(X)						
a) 0		constant b) a of a const		c) a/2		d) 1	
a) 0				c) a/2		d) 1	
	x f(x)	0	2/9	2 3/9	3 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?							
	x 0	1	2 3				
	I	6 2/6					

b) 1.5 c) 2.5

d) 3.5

a) 0.5

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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) np	<mark>b) npq</mark>	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)  $\sqrt{npq}$