

CLASS : XIth
DATE :
SUBJECT : MATHS
DPP NO. :8

Topic:-probability

1. An integer is chosen at random from first two hundred digits. Then, the probability that the integer chosen is divisible by 6 or 8, is							
	a) $\frac{1}{4}$	b) $\frac{2}{4}$	c) $\frac{3}{4}$	d) None of these			
2.	For a random variable	is					
	a) 8	b)5	c) 2	d)1			
3. A coin is tossed n times. The probability of getting head at least once is greater that the least value of n is							
	a) 2	b)3	c) 5	d)4			
4. If any four numbers are selected and they are multiplied, then the probability that the will 1,3,5 or 7, is							
	a) 4/625	b) 18/625	c) 16/625	d) None of these			
	If A and B are two indenal to	$A' \cap B) = \frac{8}{25}$, then $P(A)$ is					
cqu	a) $\frac{1}{5}$	$b)\frac{3}{8}$	c) $\frac{2}{5}$	d) $\frac{4}{5}$			
6.	d) None of these						
	a) 4/5	b) 1/5	c) 2/5	d) None of these			
7.	4	together, then the proba	1	7			
	a) $\frac{1}{2}$	b) $\frac{3}{4}$	c) $\frac{1}{8}$	d) ⁷ / ₈			
8.	A random variable X for a) $0 < \alpha < \beta$	bllows binomial distributed b) $0 < \beta < \alpha$	tion with mean α and vac) $\alpha < 0 < \beta$	riance β . Then d) $\beta < 0 < \alpha$			
9. n, 1	Probability of getting positive integral roots of the equation $x^2 - n = 0$ for the integer $\le n \le 40$ is						
ŕ	a) $\frac{1}{5}$	b) $\frac{1}{10}$	c) $\frac{3}{20}$	d) $\frac{1}{20}$			
10.	0. The probability that the three cards drawn from a pack of 52 cards, are all black, is						
	a) $\frac{1}{17}$	b) $\frac{2}{17}$	c) $\frac{3}{17}$	d) $\frac{2}{19}$			

nur	nbers are equal is a) 165/216	b) 177/216	c) 51/216	d)90/216			
12.			at $P(B) = \frac{2}{7}, P(A \cup B^c) = 0$ c) 0.3	0.8, then $P(A)$ is equal to d) 0.4			
10	a) 0.1	b) 0.2					
13. An experiment yields 3 mutually exclusive and exhaustive events A,B,C . If $P(A)=2P(B)=3P(C)$, then $P(A)$ is equal to							
	a) $\frac{1}{11}$	b) $\frac{2}{11}$	c) $\frac{3}{11}$	d) $\frac{6}{11}$			
14. A random variable <i>X</i> takes values 0, 1, 2, 3, with probability $P(X = x) = h(x + 1)^{\binom{1}{x}}$ where <i>h</i> is constant then $P(X = 0)$ is							
$P(X = x) = k(x + 1)(\frac{1}{5})^x$, where k is constant, then $P(X = 0)$ is							
	a) $\frac{7}{25}$	b) $\frac{18}{25}$	c) $\frac{13}{25}$	$d)\frac{16}{25}$			
15. If <i>A</i> and <i>B</i> are two events such that $P(A \cup B) = \frac{5}{6}$,							
P(A	$1 \cap B$) = $\frac{1}{3}$ and $P(\overline{B}) = \frac{1}{3}$, then	hen the value of $P(A)$ is					
	a) $\frac{1}{3}$	b) 1/4	c) $\frac{1}{2}$	d) $\frac{2}{3}$			
16. In a bag there are three tickets numbered 1,2,3.A ticket is drawn at random and put back, and							
this	is done four times. The	pro <mark>babili</mark> ty that the sum	of the numbers is even	, is			
	a) 41/81	b) 39/81	c) 40/81	d) None of these			
17. A box contains 24 identical balls of which 12 are white and 12 are black. The balls are drawn at random from the box one at a time with replacement. The probability that a white ball is drawn for the 4th time on the 7th draw, is							
	a) $\frac{5}{64}$	b) $\frac{27}{32}$	c) $\frac{5}{32}$	$d)^{\frac{1}{2}}$			
18. Out of 15 persons 10 can speak Hindi and 8 can speak English. If two persons are chosen at random, then the probability that one person speaks Hindi only and the other speaks both Hindi and English is							
	a) $\frac{3}{5}$	b) $\frac{7}{12}$	c) $\frac{1}{5}$	$d)\frac{2}{5}$			
19. A purse contains 4 copper and 3 silver coins. Another purse contains 6 copper and 2 silver coins. A coin is taken out from any purse, the probability that it is a silver coin, is							
	a) $\frac{37}{56}$	b) $\frac{19}{56}$	c) $\frac{4}{7}$	$d)\frac{2}{3}$			
20. Two dice are thrown together. If the numbers appearing on the two dice are different, then what is the probability that the sum is 6?							
v v 110			a) ²	d) Nana afthar-			
	a) $\frac{5}{36}$	b) $\frac{1}{6}$	c) $\frac{2}{15}$	d) None of these			

11. Three six faced dice are tossed together, then the probability that exactly two of the three