



DPP
DAILY PRACTICE PROBLEMS

CLASS : XIth DATE :

SUBJECT : MATHS DPP NO. :2

		Copic :-probability			
1. A and B are tw and $P(A) = 0.3$. T	vo independent		events such that $P(A \cup B') = 0.8$		
and $T(A) = 0.3.1$ a) $\frac{2}{7}$	b) $\frac{2}{3}$	c) $\frac{3}{8}$	d) $\frac{1}{8}$		
2. Suppose that a die (with faces marked 1 to 6) is loaded in such a manner that for $K = 1,2,3,,6$ the probability of the face marked K turning up when die is tossed is proportional to K . The probability of the event that the outcome of a toss of the die will be an even number, is equal to					
a) $\frac{1}{2}$	b) 4 7	c) $\frac{2}{5}$	d) $\frac{1}{21}$		
3. Three are six verities of a regular hexagon are chosen at random, then the possibility that the triangle with three vertices is equilateral, is equal to					
a) $\frac{1}{2}$	b) $\frac{1}{3}$	c) $\frac{1}{10}$	d) $\frac{1}{20}$		
	ou will be on <mark>the commi</mark>	ttee?	f which you are a member. What is the d) 666/8436		
5. The probabili a) $\frac{3}{28}$	ty that in a year of the 2 b) $\frac{2}{28}$	2nd century chosen at ran c) $\frac{7}{28}$	ndom there will be 53 Sundays, is d) $\frac{5}{28}$		
6. Two cards are is an ace of heart, a) $\frac{1}{25}$		ement from a well-shuffler c) $\frac{1}{52}$	d pack. The probability that one of them d) None of these		
		om from the set of all bina operation is commutative c) $\frac{n^{n/2}}{n^{n^{2}/2}}$	ry operations on a set <i>A</i> containing <i>n</i> e, is d) None of these		
	of 102 good pencils, 6 v pability that this pencil is b) 3/10		vith major defects. A pencil is choosen at d) 1/2		
9. If A and B are $P(A' \cap B)$ is a) 0.2	e events of the same exp b) 0.5	eriments with $P(A) = 0.2$ c) 0.63	, $P(B) = 0.5$, then maximum value of d) 0.25		
10 Four tickets r	narkad 00 01 10 11 raa	aatiyaly are placed in a b	ag A ticket is drawn at random five		

10. Four tickets marked 00,01,10,11, respectively are placed in a bag. A ticket is drawn at random five times, being replaced each time. The probability that the sum of the numbers on tickets thus drawn is 23, is

S		S	mart DPPs		
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a) 25/256	b) 100/256	c) 231/256	d) None of these		
11. Two dice are tossed 6 times. Then the probability that 7 will show an exactly four of the tosses is					
a) $\frac{225}{18442}$	b) $\frac{116}{20003}$	c) $\frac{125}{15552}$	d) None of these		
12. Out of 3 <i>n</i> consecutive natural numbers, 3 natural numbers are chosen at random without replacement. The probability that the sum of the chosen numbers is divisible by 3, is					
	b) $\frac{(3n^2-3n+2)}{2(3n-1)(3n-2)}$				
13. <i>A</i> and <i>B</i> are two independent witnesses (<i>ie</i> , there is no collusion between them) in a case. The probability that <i>A</i> will speak the truth is <i>x</i> and the probability that <i>B</i> will speak the truth is <i>y</i> , <i>A</i> and <i>B</i> agree in a certain statement. The probability that the statement is true, is					
a) $\frac{x-y}{x+y}$		c) $\frac{x-y}{1-x-y+2xy}$	d) $\frac{xy}{1-x-y+2xy}$		
14. Five persons A, B, C, D and E are in queue of a shop. The probability that A and E always together, is					
a) $\frac{1}{4}$	b) $\frac{2}{3}$	c) $\frac{2}{5}$	d) $\frac{3}{5}$		
15. Three dice are th a) 1/6	hrown. The probability th b) 1/18	at the same number wi c) 1/36	ll appear on each of them, is d) None of these		
16. A bag contains 8 red and 7 black balls. Two balls are drawn at random. The probability that both the balls are of the same colour, is					
a) $\frac{14}{15}$		c) 7/15	d) $\frac{4}{15}$		
17. A bag contains 10 white and 3 black balls. Balls are drawn one-by-one without replacement till all the black balls are drawn. The probability that the procedure of drawing balls will come to an end at the					
seventh draw is a) ¹⁰⁵ ₂₈₆	b) $\frac{15}{286}$	c) $\frac{181}{286}$	d) None of these		
a) $\frac{1}{286}$	$D \frac{1}{286}$	$()\frac{1}{286}$	u) None of these		
 18. Two events A and B have probability 0.25 and 0.50 respectively. The probability that both A and B occur simultaneously is 0.14. Then, the probability that neither A nor B occur, is a) 0.39 b) 0.25 c) 0.11 d) None of these 					
19. There are 9999 tickets bearing numbers 0001, 0002,,9999. If one ticket is selected from these tickets at random, the probability that the number on the ticket will consists of all different digits, isa) $\frac{5040}{9999}$ b) $\frac{5000}{9999}$ c) $\frac{5030}{9999}$ d) None of these					
20. The probability of choosing randomly a number c from the set {1, 2, 3,,9} such that the quadratic					
equation $x^2 + 4x + 6$ a) $\frac{1}{9}$	c = 0 has real roots is b) $\frac{2}{9}$	c) $\frac{3}{9}$	d) $\frac{4}{9}$		