LEVEL – I

1. Determine the proba	bility that a digit chosen	at random from the digit	s 1, 2, 3,12 will be odd.			
A. 1/2	B. 1/9	C. 5/9	D. 4/9			
2. A dice is thrown, wh	at is the probability that		prime number.			
A. 1/6	B. 1/8	C. 1/2	D. 1/3			
3. A card is drawn from	n a pack of 52 cards. Wha	at is the probability that t	the card is a Queen?			
A. 1/52	B. 1/4	C. 1/16	D. None of these			
4. Determine the proba	bility that a number chos	en at random from the d	igits 1, 2, 3,, 10 will be			
a multiple of 4.						
A. 1/4	B. 1/3	C. 1/5	D. 1/2			
5 Two brother X and Y	Zappeared for an exam 1	Let A be the event that X	is selected and B is the event			
			he probability that both of			
them are selected.	producintly of 11 is 177 un	a that of B is 2/7. I ma t	the producting that both of			
A. 1/63	B. 2/35	C. 2/63	D. 9/14			
A. 1/03	D. 2/33	C. 2/03	D. 9/14			
6 Determine the much	hility that a diait ahagan	at non dans from diaita 1	2 2 12 will be even			
-	· ·		2, 3, 13 will be even.			
A. 1/2	B. 1/9	C. 5/9	D. 6/13			
	.' 'CTT 1 1 1/1		1.11.			
	times, if $H = head$ and T	= tail, what is the proba	bility of the tosses coming up			
in the order HTHH?						
A. 3/16	B. 1/16	C. 5/16	D. 7/16			
	of throwing a total of 8 in	-				
A. 1/36	B. 5/36	C. 25/36	D. 12/36			
9. An urn contains 6 red	d, 5 blue and 2 green mar	rbles. If 2 marbles are pie	cked at random, what is the			
probability that both are	e red?					
A. 6/13	B. 5/26	C. 5/13	D. 7/26			
10. Four dice are thrown simultaneously. Find the probability that all of them show the same face.						
A. 1/216	B. 1/36	C. 4/216	D. 3/216			
11. Two dice are thrown, what is the probability that both the dices are not having the same number.						
A. 1/4	B. 5/6	C. 1/9	D. 1/12			
A. 1/4	D. 3/0	C. 1/9	D. 1/12			
12. A die is thrown. Let A be the event that the number obtained is greater than 3. Let B be the event that the number obtained is less than 5. Then P (AUB) is						
		` '	-			
A. 2/5	B. 3/5	C. 0	D. 1			
13. A five-digit number is formed by using digits 1, 2, 3, 4 and 5 without repetition. What is the						
probability that the number is divisible by 4?						
A. 1/5	B. 5/6	C. 4/5	D. None of these			

•	•	ther bag contains 4 red are one ball is red and one is	nd 6 green balls. If one ball green.
A. 19/20	B. 17/20	C. 8/10	D. 21/40
-	6% of cases and B in 80% narrating the same even	-	nt of cases are they likely to
A. 35%	B. 5%	C. 45%	D. 22.5%
16. A bag contains 6 wl they are of same colour		oalls are drawn at randon	n. Find the probability that
A. 1/2	B. 7/15	C. 8/15	D. 1/9
		-	350 are placed in a box. What mber with a hundredth digit
A. 0.285	B. 0.40	C. 100/249	D. 99/250
	1/7) and the probability of		ame post. The probability of One what is the probability that
A. 2/7	B. 1/7	C. 3/4	D. 4/5
•	lity of getting 53 Monda		
A. 1/7	B. 3/7	C. 2/7	D. 1
20. In a class, there are that 1 girl and 2 boys ar		ree students are selected	at random. The probability
A. 21/46	B. 1/5	C. 3/25	D. 1/50

LEVEL – II

1. Two cards are drawn in succession from a pack of 52 cards, without replacement. What is the probability, that the first is a Queen and the second is a Jack of a different suit?						
A. 1/52	B. 1/13	C. 4/13	D. 1/221			
2. One ticket is selected at random from 50 tickets numbered 0, 01, 02,, 49. Then, the probability that the sum of the digits on the selected ticket is 8, given that the product of these digits is zero equals.						
A. 1/14	B. 1/7	C. 5/14	D. 1/50			
3. It is given that the events A and B are such that $P(A) = 1/4$, $P(A B) = 1/2$ and $P(B A) = 2/3$. Then $P(B A) = 2/3$. Then $P(B)$ is A. $1/2$ B. $1/6$ C. $1/3$ D. $2/3$						
4. A pair of fair dice is thrown independently three times. The probability of getting a total of exactly 9 twice is						
A. 1/729	B. 8/9	C. 8/729	D. 8/243			
5. A bag contains 12 white and 18 black balls. Two balls are drawn in succession without replacement. What is the probability that first is white and second is black? A. 18/145 B. 18/29 C. 36/135 D. 36/145						
6. The odds against an event are 5:3 and the odds in favour of another independent event are 7:5. Find the probability that at least one of the two events will occur. A. 52/96 B. 69/96 C. 71/96 D. 13/96						
7. If the chance that a vessel arrives safely at a port is 9/10 then what is the chance that out of 5 vessels expected at least 4 will arrive safely?						
A. $14 \times 9^4 / 10^5$	B. $15 \times 9^5 / 10^4$	C. $14 \times 9^3 / 10^4$	D. $14 \times 9^6 / 10^5$			
8. Derek throws three dice in a special game. If he knows that he needs 15 or higher in this throw to win, then find the chance of his winning the game.						
A. 5/54	B. 17/216	C. 13/216	D. 15/216			
9. An urn contains 6 red, 5 blue and 2 green marbles. If three marbles are picked at random, what is the probability that at least one is blue?						
A. 28/143	B. 115/197	C. 28/197	D. 115/143			
10. Four cards are drawn at random from a pack of 52 plating cards. Find the probability of getting all the four cards of the same suit.						
A. 13/270725	B. 91/190	C. 178/20825	D. 44/4165			
11. There are four hotels in a town. If 3 men check into the hotels in a day then what is the probability that each checks into a different hotel?						
A. 6/7	B. 1/8	C. 3/8	D. 5/9			

team Arrogant will be c	hampion is 5 to 3, and th	ne odds that team Overco	tournament. The odds that infident will be the champion will become the champion?		
A. 3 to 2	B. 5 to 2	C. 6 to 1	D. 33 to 7		
	ox, what is the probabilit	to 100. If three balls are sty that the sum of the three	selected at random and with ee numbers on the balls		
A. 1/2	B. 3/4	C. 3/8	D. 1/8		
-		ls. Another bag contains ty that the ball will be wl	2 white and 4 black balls. A hite is:		
A. 7/11	B. 7/30	C. 5/11	D. 7/15		
15. I forgot the last digit of a 7-digit telephone number. If 1 randomly dials the final 3 digits after correctly dialling the first four, then what is the chance of dialling the correct number?					
A. 1/1001	B. 1/1000	C. 1/999	D. 1/990		
16. In his wardrobe, Dexter has three trousers. One of them is black the second is blue, and the third brown. In his wardrobe, he also has four shirts. One of them is black and the other 3 are white. He opens his wardrobe in the dark and picks out one shirt and one trouser pair without examining the colour. What is the likelihood that neither the shirt nor the trouser is black?					
A. 1/12	B. 1/2	C. 1/4	D. 1/6		
17. A man can hit a targ he will hit his target?	get once in 4 shots. If he	fires 4 shots in successio	n, what is the probability that		
A. 175/256	B. 1/256	C. 81/256	D. 1		
18. The letters B,G,I,N	and R are rearranged to t	form the word 'Bring'. Fi	nd its probability:		
A. 1/120	B. 1/54	C. 1/24	D. 1/76		
•		•	He keeps them all in the same at he will get a matching		
A. 1	B. $2 \times {}^{9}C_{2} \times {}^{9}C_{1} / {}^{18}C_{3}$	C. ${}^{9}C_{3} \times {}^{9}C_{1} / {}^{18}C_{3}$	D. None of these		
20. Four boys and three alternate positions is:	girls stand in queue for	an interview. The probab	oility that they stand in		
A. 1/17	B. 1/34	C. 1/35	D. 1/68		