BHARAT SCHOOL OF BANKING

1. A bag contains 12 white and 18 black balls. Two balls are drawn in succession without

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replacement. What is the probability that first is white and second is black?

A) 36/135 B) 36/145 C) 18/ 91 D) 30/91 E) None of these	
 2. Two dice are thrown simultaneously. What is the probability of getting two numbers we product is even? A) 3/16 B) 1/8 C) 3/4 D) 1/2 E) None of these 	rhose
 3. In a class, there are 15 boys and 10 girls. Three students are selected at random. The probability that 1 girl and 2 boys are selected is: A) 21/46 B) 21/135 C) 42/135 D) Can't be determined E) None of these 	
 4. A card is drawn from a pack of 52 cards. The probability of getting a queen of club or a heart is? A) 3/26 B) 3/52 C) 1/26 D) 1/4 E) None of these 	king of
5. A bag contains 4 white, 5 red and 6 blue balls. Three balls are drawn at random from the probability that all of them are blue, is: A) 1/91 B) 2/91 C) 3/91 D) 4/91 E) None of these.	ne bag.
6. A bag contains 2 yellow, 3 green and 2 blue balls. Two balls are drawn at random. What the probability that none of the balls drawn is blue?	at is

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A) 5/7 B) 1/21 C) 10/21 D) 2/9 E) None of these
7. Three coins are tossed. What is the probability of getting at most two tails? A) 1/8 B) 5/8 C) 3/8 D) 7/8 E) None of these
8. One card is drawn at random from a pack of 52 cards. What is the probability that the card drawn is a face card (Jack, Queen and King only)? A) 1/13 B) 2/13 C) 3/13 D) 3/52 E) None of these
9. P and Q sit in a ring arrangement with 10 persons. What is the probability that P and Q will sit together? A) 2/11 B) 3//11 C) 4/11 D) 5/11 E) None of these
 10. Two dice are thrown simultaneously. Find the probability of getting a multiple of 2 on one dice and multiple of 3 on the other dice. A) 1/9 B) 11/36 C) 13/36 D) Data inadequate E) None of these

Explanation:

1. The probability that first ball is white= 12c1/30c1= 2/5Since, the ball is not replaced; hence the number of balls left in bag is 29.

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Hence the probability the second ball is black= 18c1/29c1 = 18/29Required probability = 2/5*18/29 = 36/145

2. In a simultaneous throw of two dice, we have $n(S) = (6 \times 6) = 36$.

so probability = 27/36 = 3/4

- 3. Probability = 10c1*15c2/25c3 = 21/46
- 4.2/52 = 1/26
- 5. 6c3/15c3 =4/91
- 6.5c2/7c2 = 10/21
- 7.7/8
- 8. 12/52 = 3/13
- 9. n(S)= number of ways of sitting 12 persons at round table:
- =(12-1)!=11!

Since two persons will be always together, then number of persons:

- =10+1=11
- So, 11 persons will be seated in (11-1)!=10! ways at round table and 2 particular persons will be seated in 2! ways.
- n(A)= The number of ways in which two persons always sit together = $10!\times2$ So probability = $10!\times2!/11!=2/11$
- 10.11/36