***Questions on Probability***

1. A coin is tossed 1000 times. Head appeared 455 times and Tail appeared 545 times. Based on this, the probability of each event will be
   1. **0.455 & 0.545**
   2. 0.445 & 0.555
   3. 0.45 & 0.55
   4. 455 & 545
2. The sum of all probabilities will be equal to
   1. 2
   2. **1**
   3. 0.75
   4. 0.5
3. The probability of each event lies between
   1. 1 & 2
   2. 0 & infinity
   3. 0 & 1
   4. 1 & infinity
4. If probability of an event E, defined by P(E) = 0.44, the P(not E) is
   1. 0.44
   2. 0.55
   3. 0.50
   4. **0.56**
5. If P(defective) = 0.38, then, the probability of not defective is
   1. **0.62**
   2. 0.38
   3. 0.48
   4. 1
6. The probability that a person will be COVID Positive is 0.3. What is the probability that the person is not COVID Positive?
   1. **0.7**
   2. 0.6
   3. 0.5
   4. None of the above
7. A dice is thrown. The probability of getting 1 and 5 is
   1. 1/6
   2. 2/3
   3. **1/3**
   4. 1/2
8. A batsman hits boundaries for 6 times out of 30 balls. Find the probability that he did not hit the boundaries
   1. 1/5
   2. 2/5
   3. 3/5
   4. **4/5**
9. Three coins were tossed 200 times. The number of times 2 heads came up is 72. Then the probability of 2 heads coming up is
   1. 1/25
   2. 2/25
   3. 7/25
   4. **9/25**
10. If 2 coins are tossed, what is the probability of getting heads on both the coins?
    1. ½
    2. 1/3
    3. **¼**
    4. 3/2
11. If 2 coins are tossed, what is the probability of getting different outcomes on both coins?
    1. **½**
    2. 1/3
    3. ¼
    4. 3/2
12. What is the probability of getting an even number when a die is rolled?
    1. ½
    2. **1/3**
    3. ¼
    4. 1/6
13. A bag has 6 balls. 2 of them are red colored, 2 are blue and the remaining 2 are green colored. What is the probability of picking a red ball from the bag?
    1. ½
    2. **1/3**
    3. ¼
    4. 1/6
14. A bag contains apple, orange, lemon and pineapple. What is the probability of picking an apple?
    1. ½
    2. 1/13
    3. **¼**
    4. 1/3
15. A bag has 3 white and 2 black balls. What is the probability of picking a black ball from bag?
    1. ½
    2. 2/3
    3. ¼
    4. **2/5**
16. Out of 300 students in a school, 95 play cricket only, 120 play football only, 80 play volleyball only and 5 play no games. If one student is chosen at random, the probability that he plays volley ball is
    1. 2/15
    2. 7/12
    3. **4/15**
    4. 1/3
17. Out of 300 students in a school, 95 play cricket only, 120 play football only, 80 play volleyball only and 5 play no games. If one student is chosen at random, the probability that he plays either cricket or volley ball is
    1. 2/15
    2. **7/12**
    3. 4/15
    4. 1/3
18. Out of 300 students in a school, 95 play cricket only, 120 play football only, 80 play volleyball only and 5 play no games. If one student is chosen at random, the probability that he plays neither football nor volley ball is
    1. 2/15
    2. 7/12
    3. 4/15
    4. **1/3**
19. A box contains 90 discs numbered 1 to 90. One disc is drawn at random from the box. What is the probability that it has a two-digit number printed on it?
    1. 1/10
    2. **9/10**
    3. 1/5
    4. 1/15
20. A box contains 90 discs numbered 1 to 90. One disc is drawn at random from the box. What is the probability that the number printed on it is a multiple of 5?
    1. 1/10
    2. 9/10
    3. **1/5**
    4. 1/15
21. A box contains 90 discs numbered 1 to 90. One disc is drawn at random from the box. What is the probability that the number printed on it is a perfect square?
    1. **1/10**
    2. 9/10
    3. 1/5
    4. 1/15
22. A box contains 90 discs numbered 1 to 90. One disc is drawn at random from the box. What is the probability that the number printed on it is divisible by 3 and 5?
    1. 1/10
    2. **9/10**
    3. 1/5
    4. 1/15
23. The blood group of 60 students in a class are as follows: A – 12, B – 20, AB – 10, O – 18. What is the probability that a randomly selected student has his blood group O?
    1. 2/10
    2. **3/10**
    3. 7/10
    4. 8/10
24. The blood group of 60 students in a class are as follows: A – 12, B – 20, AB – 10, O – 18. What is the probability that a randomly selected student has his blood group is not O?
    1. 2/10
    2. 3/10
    3. **7/10**
    4. 8/10