Probability Practice Set

1. A bag contains 2 yellow, 3 green and 2 blue balls. Two balls are drawn at random. What is the probability that none of the balls drawn is blue?
A] 1/2   B] 10/21   C] 9/11   D] 7/11

2. A die is rolled twice. What is the probability of getting a sum equal to 9?
A] 2/3   B] 2/9   C] 1/9   D] 1/3

3. Three coins are tossed. What is the probability of getting at most two tails?
A] 7/8   B] 1/8   C] 1/2   D] 1/7

4. When tossing two coins once, what is the probability of heads on both the coins?
A] 1/4   B] 1/2   C] 3/4   D] None

5. What is the probability of getting a number less than 4 when a die is rolled?
A] 1/6   B] 1/2   C] 1/3   D] 1/4

6. A bag contains 4 black, 5 yellow and 6 green balls. Three balls are drawn at random from the bag. What is the probability that all of them are yellow?
A] 2/91   B] 1/81   C] 1/8   D] 2/81

7. One card is randomly drawn from a pack of 52 cards. What is the probability that the card drawn is a face card(Jack, Queen or King)
A] 1/13   B] 2/13   C] 3/13   D] 4/13

8. A dice is thrown. What is the probability that the number shown in the dice is divisible by 3?
A] 1/6   B] 1/3   C] 1/4   D] ½

9. John draws a card from a pack of cards. What is the probability that the card drawn is a card of black suit?
A] 1/2   B] 1/4   C] 1/3   D] 1/13

10. There are 15 boys and 10 girls in a class. If three students are selected at random, what is the probability that 1 girl and 2 boys are selected?
A] 1/40   B] 1/2   C] 21/46   D] 7/42

11. What is the probability of selecting a prime number from 1,2,3,... 10 ?
A] 2/5   B] 1/5   C] 3/5   D] 1/7

12. 3 balls are drawn randomly from a bag contains 3 black, 5 red and 4 blue balls. What is the probability that the balls drawn contain balls of different colors?
A] 3/11   B] 1/3   C] 1/2   D] 2/11

13. 5 coins are tossed together. What is the probability of getting exactly 2 heads?
A] 1/2   B] 5/16   C] 4/11   D] 7/16

14. The probability A getting a job is 1/5 and that of B is 1/7 . What is the probability that only one of them gets a job?
A] 11/35   B] 12/35   C] 2/7   D] 1/7

15. A letter is chosen at random from the word 'ASSASSINATION'. What is the probability that it is a vowel?
A] 4/13   B] 8/13   C] 7/13   D] 6/13

16. Tickets numbered 1 to 20 are mixed up and then a ticket is drawn at random. What is the probability that the ticket drawn has a number which is a multiple of 3 or 5?
A] 1/20   B] 9/20   C] 4/20   D] ¼

17. A man and his wife appear in an interview for two vacancies in the same post. The probability of husband's selection is (1/7) and the probability of wife's selection is (1/5). What is the probability that only one of them is selected ?
A] 2/7   B] 1/7   C] 3/4   D] 4/5

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18. Raja has 4 tickets of a lottery for which 12 tickets were sold and 3 prices are to be given. What is the probability that Raja will win at least one price?
A] 41/55   B] 43/55   C] 12/55   D] 14/55

19. A basket contains 15 apples and 10 oranges out of which 4 apples and 2 oranges are defective. If a person takes two fruits at random, what is the probability that either both are apples or both are good?
A] 221/300   B] 312/401   C] 1/2   D] NONE

20. Three boys P,Q and R are to speak at a function along with 5 others. If all of them speak in random order, what is the probability that P speaks before Q and Q speaks before R?
A] 2/9   B] 1/9   C] 1/6   D] 1/3

21. An urn contains 3 red and 4 green marbles. If three marbles are picked at random, what is the probability that two green and one is red?
A] 3/7   B] 18/35   C] 5/14   D] 4/21

22. A student has 60% chance of passing in English and 54% chance of passing in both English and Mathematics. What is the percentage probability that he will fail in Mathematics?
A] 12   B] 36   C] 4   D] 10   E] 14

23. When three coins are tossed together, the probability that all coins have the same face up, is
A] 1/3   B] 1/6   C] 1/8   D] 1/12   E] 1/17

24. Ten identical particles are moving randomly inside a closed box. What is the probability that at any given point of time all the ten particles will be lying in the same half of the box?
A] 1/4   B] 1/512   C] 2/92   D] 2/112   E] 1/232

25. 3 digits are chosen at random from 1,2,3,4,5,6,7,8 and 9 without repeating any digit. What is the probability that their product is odd?
A] 2/3   B] 5/108   C] 5/42   D] 8/42   E] 9/42

26. A committee of 4 is to be formed from among 4 girls and 5 boys. What is the probability that the committee will have number of boys less than number of girls?
A] 1/4   B] 1/5   C] 1/6   D] 1/7

27. A box contains 4 black balls, 3 red balls and 5 green balls. 2 balls are drawn from the box at random. What is the probability that both the balls are of the same colour?
A] 47/68   B] 1/6   C] 19/66   D] 2/11

28. In a box carrying one dozen of oranges, one-third have become bad. If 3 oranges are taken out from the box at random, what is the probability that at least one orange out of the three oranges picked up is good?
A] 1/55   B] 54/55   C] 45/55   D] 3/55

29. A box contains 5 green, 4 yellow and 3 white marbles. 3 marbles are drawn at random. What is the probability that they are not of the same colour?
A] 13/44   B] 41/44   C] 13/55   D] 152/55

30. Out of 15 students studying in a class, 7 are from Maharashtra, 5 from Karnataka and 3 from Goa. Four students are to be selected at random. What are the chances that at least one is from Karnataka?
A] 12/13   B] 11/13   C] 100/15   D] 51/15

31. From a pack of 52 cards, 2 cards are drawn at random. What is the probability that either both cards are black card or both are heart card?
A] 31/102   B] 21/73   C] 1/5   D] 17/100   E] 3/10

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32. Two cards are drawn at random from a pack of 52 cards. What is the probability that either both are black or both are jacks?
A] 62/221 B] 21/312 C] 5/21 D] NONE

33. From a group of 3 men, 4 women and 2 children, 4 people are to be chosen to form a committee. What is the probability that the committee contains at least 1 each of men, women and children?
A] 4/15 B] 12/21 C] 4/19 D] 4/7

33. A box contains 25 bulbs out of which 5 are defective. 3 bulbs are to be delivered to a customer. What is the probability that he get one defective bulb?
A] 19/46 B] 25/51 C] 44/77 D] 21/46

34. There are 4 red balls, 5 white and 3 green balls in a basket. 3 balls are chosen at random. What is the probability that there is at most 1 green ball?
A] 13/40 B] 48/55 C] 25/68 D] 8/33

35. A bag contains 3 red, 4 green and 3 yellow balls. If 2 balls are drawn at random, what is the probability that they are of different color?
A] 9/16 B] 4/15 C] 11/15 D] 5/11

36. There are 4 black balls and 6 white balls. 2 balls are drawn one by one without replacement. What is the probability that the balls are same in color?
A] 9/21 B] 8/17 C] 5/14 D] 7/15

37. A bag contains 5 red balls and 4 green balls. 2 balls are drawn at random. What is the probability that both balls are same in color?
A] 5/11 B] 4/9 C] 3/13 D] 6/17

38. An urn contains 4 red balls, 5 green balls and 6 white balls, if one ball is drawn at random, find the probability that it is neither red nor white.

A] 1/3 B] 1/4 C] 1/5 D] 2/3

39. Two squares are chosen at random on a chessboard. What is the probability that they have a side in common?
A] 1/18 B] 64/4032 C] 63/64 D] 1/9

40. A man can hit a target once in 4 shots. If he fires 4 shots in succession, what is the probability that he will hit his target?
A] 1 B] 1/256 C] 81/256 D] 175/256