

## 15. PROBABILITY

### 1 MARK QUESTIONS

- The probability of getting 101 marks in out of 100 marks is .....
- If a dice is thrown once, there are two possible outcomes getting a number greater than 4 as less than equal to 4. Therefore, the probability of getting a number greater than 4 is  
(a)  $\frac{1}{3}$       (b)  $\frac{2}{3}$       (c)  $\frac{1}{5}$       (d)  $\frac{2}{5}$
- The sum of probabilities of happening of an event and not happening of an event is equal to .....
- The sum of the probabilities of all the elementary events of an experiment is .....
- When two dice are thrown together, the probability of getting a number always greater than 4 on the second die is  
(a)  $\frac{1}{3}$       (b)  $\frac{2}{3}$       (c)  $\frac{4}{5}$       (d)  $\frac{3}{5}$
- Find the probability of throwing a sum 9 with two dice.
- The probability of getting a face card from a pack of card is ....
- The sum of probabilities of all the elementary events is always.....
- A die is thrown once, what is the probability of not getting a prime number?  
(a)  $\frac{1}{3}$       (b)  $\frac{1}{2}$       (c)  $\frac{1}{4}$       (d)  $\frac{1}{6}$
- The sum of probabilities of happening of an event and not happening of an event is equal to ...
- The sum of the probabilities of all the elementary events of an experiment is ...
- A standard deck of 52 cards is shuffled. Rama draws a single card from the deck at random. What is the probability that the card is a jack?
- Two dice are thrown together. Find the probability that sum of the two numbers will be multiple of 4.
- A box contains 90 discs which are numbered from 1 to 90. If one disc is drawn at random from the box, the probability that it bears a two-digit number is  
(a) 0.6      (b) 0.7      (c) 0.8      (d) 0.9

15. In a lottery ticket, there are 10 prizes and 25 blanks, the probability of not getting a prize is  
 (a)  $\frac{3}{7}$       (b)  $\frac{4}{7}$       (c)  $\frac{5}{7}$       (d)  $\frac{6}{7}$
16. In throwing a die, the probability of getting a multiple of 7 is ....
17. The probability on an event that cannot happen is .....
18. If the occurrence of one event cannot be expected in preference of the other event, then there events are called .....
19. A card is randomly drawn from a deck of 52 cards. The probability that this card bears an even number in black is  
 (a)  $\frac{5}{26}$       (b)  $\frac{5}{13}$       (c)  $\frac{3}{13}$       (d)  $\frac{3}{26}$
20. The probability of getting same number 2 on tossing of two dice is .....
21. The probability of guessing the correct answer to a certain test question is  $\frac{x}{12}$ . If the probability of not guessing the correct answer to this question is  $\frac{2}{3}$ , the x is equal to  
 (a) 2      (b)      (c) 4      (d) 6
22. Card marked with numbers 2 to 90 are placed in a box and mixed thoroughly. One card is drawn at random from the box. Find the probability that the card drawn, shows  
 (i) a two-digit number  
 (ii) a number which is a perfect square
23. Probability of getting a multiple of 3 in a single throw of a die is  
 (a)  $\frac{2}{3}$       (b)  $\frac{1}{3}$       (c)  $\frac{1}{4}$       (d)  $\frac{3}{4}$
24. A die is thrown once. The probability of getting a prime number is ...

ANSWERS

- |                  |   |                         |                   |                    |
|------------------|---|-------------------------|-------------------|--------------------|
| 1. 0             | 2. a  | 3. one                  | 4. Always one     | 5. a               |
| 6. $\frac{1}{9}$ | 7. $\frac{3}{13}$                           | 8. 1                    | 9. b              | 10. 1              |
| 11. 1            | 12. $\frac{1}{13}$                          | 13. $\frac{1}{4}$       | 14. d             | 15. c              |
| 16. 0            | 17. 0                                       | 18. equal likely events | 19. a             | 20. $\frac{1}{36}$ |
| 21. c            | 22. (i) $\frac{81}{89}$ (ii) $\frac{8}{89}$ | 23. b                   | 24. $\frac{1}{2}$ |                    |

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