

By. Er. Dharmendra Sir

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DPM CLASSES

6th to 10th (Math's & Science), 11th & 12th (Physics, Chemistry, Math's)

TEST - PAPER (CBSE/NCERT)

PROBABILITY

SESSION -2024-25

CLASS - 10th

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Time : 1 hr

∴ Probability :-

mm :

Q. 1. Very short answer type questions :

(i) Two players Sangeeta and Reshma, play a tennis match. It is known that the probability of Sangeeta winning the match is 0.62. What is the probability of Reshma winning the match?

(ii) If $P(E) = 0.05$, what is the probability of 'Not E'?

(iii) Define impossible event?

(iv) Define elementary event?

(v) A bag contains 3 red ball and 5 black balls. A ball is drawn at random from the bag. What is the probability that the ball drawn is (i) red?
(ii) not red?

Q. 2. A piggy bank contains hundred 50p coins, fifty ₹1 coins, twenty ₹2 coins and ten ₹5 coins. If it is equally likely that one of the coins will fall out, when the piggy bank is turned upside down. What is the probability that the coin (i) will be a 50p coin (ii) will not be a ₹5 coin?

1.

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Q. 3. (i) A lot of 20 bulbs contain 4 defective ones. one bulb is drawn at random from the lot. What is the probability that this bulb is defective?

(ii) Suppose the bulb drawn in (i) is not defective and is not replaced. Now one bulb is drawn at random from the rest. What is the probability that this bulb is not defective?



Q. 4. One card is drawn from a well-shuffled deck of 52 cards. Calculate the probability that the card will -

(i) be an ace (ii) not be an ace.

Q. 5. Harpreet tosses two different coins simultaneously. What is the probability that she gets at least one head?



Q. 6. A box contains 5 red marbles, 8 white marbles and 4 green marbles. One marble is taken out of the box at random. What is the probability that the marble taken out will be (i) red (ii) white (iii) not green.

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Q. 7. A box contains 3 blue, 2 white and 4 red marbles. If a marble is drawn at random from the box. What is the probability that it will be:
(i) White (ii) Blue (iii) Red?



Q. 8. We throw a dice once. Find that:
(i) What is the probability of getting a number greater than 4?
(ii) What is the probability of getting a number less than 4?



Q. 9. A box contains 90 discs which are numbered from 1 to 90. If one disc is drawn at random from a box, find the probability that it bears
(i) a two-digit number (ii) a perfect square number
(iii) a number divisible by 5.

Q. 10. One card is drawn from a well shuffled deck of 52 cards. Find the probability of getting:
(i) a King of red colour (ii) a face card
(iii) a red face card (iv) the Jack of heart
(v) a spade (vi) the queen of diamonds

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