Episode No – 47
Faculty: PRASANNA KANNAN

PROBABILITY

* A person can kill a bird with probability ¾ . HE tries 5 times. What is the probability that he does not kill the bird?
  a) 243/1024
  b) 781/1024
  c) 1/1024
  d) 1023/1024
  Ans : c)

* A card is chosen randomly from a pack of playing cards. The probability that it is a Black King or Queen of heart or jack is
  a) 1/52
  b) 6/52
  c) 7/52
  d) None
  Ans : c)

* There are four letters and four addressed envelopes. The chance that not all letters are dispatched in the right envelopes is
  a) 1/52
  b) 6/52
  c) 7/52
  d) None
  Ans : d)

* A purse contains 4 copper coins and 3 silver coins the second purse contains 6 copper & 2 silver coins. If a coin is drawn out of any purse, then the probability that it is copper coin is
  a) 4/7
  b) 3/4
  c) 37/56
  d) None of these
  Ans : c)

* Probability of happening of an event A is 0.5 and that of B is 0.3. If a & B are mutually exclusive events, then probability of neither A nor B happening is
  a) 0.6
  b) 0.2
  c) 0.4
  d) None of these
  Ans : b)

* A fair coin is tossed repeatedly. If tail appears on first four tosses, then the probability of head appearing on fifth toss equals :
  a) 1/2
  b) 1/32
  c) 31/32
  d) 1/5
  Ans : a)

* Probability that a speaks truth is 4/5, while this probability for B is 3/4. The probability that they contradict each other when asked to speak on a fact is
  a) 4/5
  b) 1/5
  c) 7/20
  d) 3/20
  Ans : c)

* Three mangoes and three apples are in a box. If two fruits are chosen at random, probability that one is a mango and the other is an apple is
  a) 2/3
  b) 3/5
  c) 1/3
  d) None of these
  Ans : b)

* A card is drawn at random from a well shuffled pack of 52 cards. Then, probability that the card is neither a red nor a Queen is :
  a) 6/13
  b) 5/13
  c) 11/13
  d) 4/13
  Ans : a)

* A pack of playing cards was found to contain only 51 cards. If the first 13 cards which are examined are all red, then the probability that the missing card is black, is
  a) 1/3
  b) 2/3
  c) 1/2
  d) $\frac{25C_{13}}{51C_{13}}$

  Ans : b)

* A problem of mathematics is given to three students whose chances of solving the problem are 1/3, 1/4, 1/5 respectively. The probability that the question is solved is
  a) 2/3
  b) 3/4
  c) 4/5
  d) 3/5
  Ans : d)