Thapar InsTITuTe of engIneerIng and Technology, paTIala

Department of Electronics and Communication Engineering

UEC301 – Information and Communication Theory

TuTorial - 1

Q1 In the experiment of rolling of dice, find the

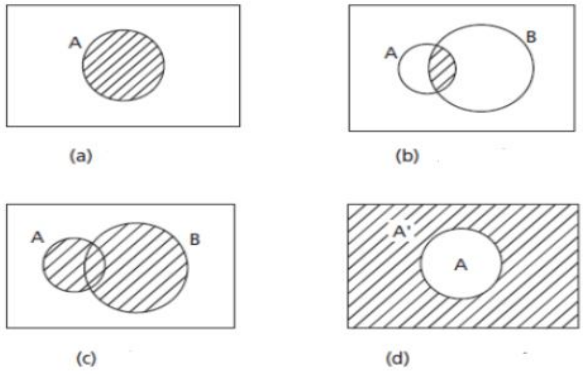
a) probability of rolling a one
b) probability of rolling a one or a six
c) probability of rolling an even number

Q2 A card is drawn from a standard deck of 52 cards. Find the probability that it is

a) a heart or a face card.
b) a jack or an ace card
c) a 10 or a spade

Q3 If two standard dice are rolled. What is the probability that the total of two dice is less than 6?

Q4 Write down the notation for the shaded area in terms of events A and B



Q5 In a rolling of dice experiment if event A is defined as occurrence of face one and event B is defined as occurrence of odd faces and event C is defined as occurrence of even faces. Find the probability of

a) event A
b) event B
c) intersection of event A and B
d) union of event A and B
e) intersection of event B and C
f) union of event B and C
g) union of event A and C