

EE23010 NCERT Exemplar

Vishal A - EE22BTECH11057

Question 10.13.3.29

The king, queen and jack of clubs are removed from a deck of 52 playing cards and then well shuffled. Now one card is drawn at random from the remaining cards. Determine the probability that the card is

- (i) a club
- (ii) 10 of hearts

Solution:

Total number of cards left

$$52 - 3 = 49 \quad (1)$$

Random variable	Sample space	Value	Event	Probability
X_1	49	1	the card is a club	$\frac{10}{49}$
X_2	49	1	the card is a 10 of hearts	$\frac{1}{49}$

s