Question 34:
4 cards: king, queen, jack and 10, all of spades are lost.
The remaining number of playing cards = 52 - 4 = 48
(i) The number of red cards = 26

$\therefore$ Probability of getting a red card = $\frac{26}{48} = \frac{13}{24}$

(ii) Since 1 card, king of spade is lost, 3 kings are left in the pack of cards

$\therefore$ Probability of getting a king = $\frac{3}{48} = \frac{1}{16}$

(iii) 4 black cards are lost. Remaining number of black cards = 26 - 4= 22

$\therefore$ Probability of getting a black card = $\frac{22}{48} = \frac{11}{24}$

Question 35:
2 red Kings, 2 red Queens, 2 red Jacks are removed.
Remaining number of cards = 52 - 6 = 46
(i) As 2 red kings are removed only 2 black cards are left

$\therefore$ probability of getting a king card = $\frac{2}{46} = \frac{1}{23}$

(ii) 6 red cards are removed. Therefore, 20 red cards are left

$\therefore$ probability of getting a red card = $\frac{20}{46} = \frac{10}{23}$

(iii) There are 13 cards of spade

$\therefore$ probability of getting a spade card = $\frac{13}{46}$

Question 36:
Number of letters in the word ASSOCIATION are 11
(i) Vowels in the word ASSOCIATION are A, O, I, A, I, O
There are 6 vowels
Probability of getting a vowel = 6/11
(ii) Number of consonants = 11 - 6 = 5
Probability of getting a consonant = 5/11

********** END **********