

## Probability and Statistics

### Question Bank

#### Unit - I

1. A class consists of 6 girls and 10 boys. If a committee of 3 is chosen at random from the class, find the probability that (a) 3 boys are selected (ii) exactly 2 girls are selected.
2. A sample space consists of 7 events namely:  $E_i, i=1,2,3,4,5,6,7$  with the assignment of probabilities 0.05, 0.20, 0.20, 0.25, 0.15, 0.10 and 0.05 respectively. Let  $A = \{E_1, E_4, E_6\}$ ,  $B = \{E_2, E_4, E_7\}$  and  $C = \{E_2, E_3, E_5, E_7\}$ . Then find the following :  $P(A)$ ,  $P(B)$ ,  $P(C)$ ,

$$P(A \cap B) \text{ and } P(A \cup B)$$

3. Fifteen numbered cards are there from 1 to 15, and two cards are chosen at random such that the sum of the numbers on both the cards is even. Find the probability that the chosen cards are odd-numbered.
4. In a certain assembly plant, three machines  $B_1$ ,  $B_2$  and  $B_3$  make 30%, 45% and 25% respectively of the products. It is known from the past experience that 2%, 3% and 2% of the products made by each machine, respectively are defective. What is the probability that the product is defective? If the product was chosen randomly and found to be defective, what is the probability that it was made by machine: (i) $B_1$  (ii) $B_2$  (iii) $B_3$
5. A random variable  $X$  has the following probability function

Values of $X$ , $x$	0	1	2	3	4	5	6	7
$P(X=x)$	0	$k$	$2k$	$2k$	$\frac{3}{k}$	$k^2$	$2k^2$	$7k^2+k$

- a) Find the value of  $k$
  - b) Evaluate:  $P(X < 6)$ ,  $P(X > 6)$  and  $P(0 < X < 5)$
  - c) Calculate the mean, variance and standard deviation of  $X$
6. The amount of bread (in hundreds of pounds)  $x$  that a certain bakery is able to sell in a day is found to be a numerical valued random phenomena, with a probability function as specified by  $f(x)$  and is given by:

# Introduction To Statistics Question Bank With Solution

**M Woodhall**



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