



## PERSONALITY DEVELOPMENT ASSOCIATION

MADRAS INSTITUTE OF TECHNOLOGY

ANNA UNIVERSITY – CHENNAI

*“DISCOVER THYSELF”*

**APTITUDE CLASS :- 08**

**DATE:-26.12.2016**

### FORMULAE:

1. Probability = No. of possible events/Total number of events

### PROBLEMS:

1. In a simultaneous toss of two coins, find the probability of two heads?
2. A dice is thrown. Find the probability that the number showing on the dice is divisible by 2.
3. Two dice are tossed. Find the probability that the total is a prime number?
4. In simultaneous throw of a pair a dice, find the probability that the sum of numbers shown on the two faces divisible by 5 or 6.
5. What is the probability of one card drawn at random from the pack of playing cards may be either a queen or an ace?
6. One card is drawn from a pack of playing cards. Obtain the probability that it is a letter card or a heart.
7. The probability of getting a king and a queen when two cards are drawn from a pack of 52 cards is:
8. A bag contains 4 white, 3 blue, 4 yellow, 5 red balls. Find probability of
  1. Two balls are drawn, both red
  2. Two balls are drawn, both red or white
  3. Three balls are drawn, two blue, 1 yellow
  4. Three balls are drawn, not yellow
  5. Three balls are drawn, atleast one is yellow.
9. A card is drawn from a pack of 100 cards numbered 1 to 100. Find the probability a drawing a number which is square?
10. A box contains 49 tickets numbered 1 to 49. One ticket drawn at randomly, find the probability that number on the ticket is either divisible b 3 or is a perfect square?
11. One bag contains 4 white 2 black balls. Another contains 3 white and 5 black balls. One ball is drawn from each bag. Find the probability that both are white?
12. A can solve 80% of the problems given in an exam and B can solve 70%. What is the probability that at least one of them will solve a problem selected at random from the exam?
13. In an arranged of 'SHIP'. Find the probability that 'S' letter occupies the first place?
14. If events A and B are independent and  $P(A)=0.15$ ,  $P(A\cup B) = 0.45$  then  $P(B)=?$
15. A family has two children. What is the probability that both children are girls given that atleast one of them is a girl?