**ACE Academy** *Inspiring the Winner in You*

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| **Std. : 10ᵗʰ CBSE** | **Date : 04/06/2017** |
| **Sub : Maths** | **Marks : 30    Time : 1 hr.** |

1. A bag contains 3 red balls and 5 black balls. A ball is drawn at random from the bag. What is the probability that the ball drawn is (i) red (ii) not red. **[02]**

2. A box contains 5 red marbles, a white marbles and 4 green marbles, one marble is taken out of the box at random. What is the probability that the marble taken out will be **[04]**

   (i) Red   (ii) White

3. A die is thrown ones, find the probability of getting **[06]**

   (1) A prime member

   (2) A number lying between 2 and 6

   (3) an odd number

4. Two coins are tossed simentaneously find the probability of getting (1) All heads (2) no head **[04]**

5. One card is drawn from a well shuffled deck of 52 cards. Calculate the probability that card will be

   (1) be an ace     (2) not be an ace **[04]**

6. Three embaised coins are tossed together. Find the probability of getting **[04]**

   (1) all heads     (2) exactly 2 heads

7. Find the probability that a leap year selected at random, will contain 53 Sundays. **[04]**

**\*Best of Luck\***