



# RJ VISION Pvt. Ltd.

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Pioneer in Coaching for AIPMT | AIIMS | JEE | GUJCET | NTSE | KVPY | OLYMPIADS | 6 TO 12 (CBSE / GSEB)

Name : Neelav D Bhatiya Date : 7/11/17  
 Class : X Board : CBSE Batch : BDS - VAGNA Course Code : \_\_\_\_\_  
 Subject : Maths Roll No. : 18082 Test ID : PI-4M  
 Marks Obtained : 30 Max. Marks : 30  
 Centre : Vagna Invigilator Sign. : \_\_\_\_\_

## Section - A

Q1  $p = b^2 - 4ac$   $p(x) = 3\sqrt{3}x^2 + 10x + \sqrt{3}$   
 $= (10)^2 - 4(3\sqrt{3})(\sqrt{3})$   
 $= 100 - 4(9)$   
 $= 64$

Q2 P(having same birthday) =  $\frac{1}{366}$   
 total no of days in year 2000  
 $= \frac{1}{366}$

## Section - B

Q3.

Total cards in a deck = 52.  
 No of cards removed = aces + clubs  
 $= 4 + 12$   
 $= 16$

Remaining card =  $52 - 16 = 36$

(a) P(Black face card) =  $\frac{\text{black face cards}}{\text{Remaining card}} = \frac{3}{36} = \frac{1}{12}$

(b) P(a red card) =  $\frac{\text{Red cards}}{\text{tot-Remaining card}} = \frac{24}{36} = \frac{2}{3}$