# DISCRETE MATHS (Q 6 & 7, PAPER 2)

### LESSON NO. 4: SIMPLE PROBABILITY

## 2006

- 6 (a) (i) How many different teams of three people can be chosen can be chosen from a panel of six boys and five girls?
  - (ii) If the team is chosen at random, find the probability that it consists of girls only?



# 2002

- 7 (a) Two unbiased dice, each with faces numbered 1 to 6, are thrown.
  - (i) What is the probability of getting a total equal to 8?
  - (ii) What is the probability of getting a total less than 8?

### 2002

- 7 (c) A palindromic number is one that reads the same backwards as forwards, such as 727 or 38183.
  - (i) The year, 2002, is a palindromic year. When is the next palindromic year?
  - (ii) How many palindromic years are there from 1000 to 9999 inclusive?
  - (iii) A whole number, greater than 9 and less than 10 000, is selected at random. What is the probability that the number is palindromic?

Answers			
<b>2006</b> 6 (a) (i) 165	(ii) $\frac{2}{33}$		
<b>2003</b> 7 (b) (i) 30	(ii) 18	(iii) 8	(iv) $\frac{5}{9}$
<b>2002</b> 7 (a) (i) $\frac{5}{36}$	(ii) $\frac{7}{12}$		
<b>2002</b> 7 (c) (i) 2112	(ii) 90	(iii) $\frac{7}{370}$	