STATISTICS (Q 7, PAPER 2)

2004

- 7 (a) The mean of the set of numbers {1, 3, 7, 9} is 5. Find the standard deviation, correct to one decimal place.
 - (b) The following table shows the time in minutes spent by customers in a cafeteria.

Time in minutes	0 - 10	10 - 20	20 - 40	40 - 70
Number of customers	80	100	160	60

[Note that 10 - 20 means at least 10 but less than 20 minutes etc.]

- (i) Find the total number of customers.
- (ii) Draw a histogram to represent the data.
- (iii) By taking the data at the mid-interval values, calculate the mean number of minutes per customer.
- (iv) What is the greatest number of customers who could have spent more than 30 minutes in the cafeteria?
- (v) What is the least number of customers who could have spent more than 30 minutes in the cafeteria?

