

STATISTICS (Q 7, PAPER 2)

2002

- 7 (a) Calculate the mean of the following numbers:
1, 0, 1, 5, 2, 3, 9.

- (b) The following cumulative frequency table refers to the ages of 70 guests at a wedding:

Age (in years)	< 20	< 40	< 60	< 90
Number of guests	6	23	44	70

- (i) Copy and complete the following frequency table:

Age (in years)	0 – 20	20 – 40	40 – 60	60 – 90
Number of guests	6	23	44	70

[Note: 20 – 40 means 20 years old or more but less than 40 etc.]

- (ii) Using mid-interval values, calculate the mean age of the guests.
(iii) What is the greatest number of guests who could have been over 65 years of age?

- (c) The grouped frequency table below refers to the marks obtained by 85 students in a test:

Marks	0 – 40	40 – 55	55 – 70	70 – 100
Number of students	16	18	27	24

[Note: 40 – 55 means 40 marks or more but less than 55 etc.]

- (i) What percentage of students obtained 55 marks or higher?
(ii) Name the interval in which the median lies.
(iii) Draw an accurate histogram to represent the data.

ANSWERS

7 (a) 3

(b) (i)

Age (in years)	0 – 20	20 – 40	40 – 60	60 – 90
Number of guests	6	23	44	70

(ii) 51

(iii) 26

(c) (i) 60%

(ii) 55-70