

## Section B (36 marks)

- 7 Any patient who fails to turn up for an outpatient appointment at a hospital is described as a 'no-show'. At a particular hospital, on average 15% of patients are no-shows. A random sample of 20 patients who have outpatient appointments is selected.

(i) Find the probability that

(A) there is exactly 1 no-show in the sample, [3]

(B) there are at least 2 no-shows in the sample. [2]

The hospital management introduces a policy of telephoning patients before appointments. It is hoped that this will reduce the proportion of no-shows. In order to check this, a random sample of  $n$  patients is selected. The number of no-shows in the sample is recorded and a hypothesis test is carried out at the 5% level.

(ii) Write down suitable null and alternative hypotheses for the test. Give a reason for your choice of alternative hypothesis. [4]

(iii) In the case that  $n = 20$  and the number of no-shows in the sample is 1, carry out the test. [4]

(iv) In another case, where  $n$  is large, the number of no-shows in the sample is 6 and the critical value for the test is 8. Complete the test. [3]

(v) In the case that  $n \leq 18$ , explain why there is no point in carrying out the test at the 5% level. [2]

- 8 The heating quality of the coal in a sample of 50 sacks is measured in suitable units. The data are summarised below.

Heating quality ( $x$ )	$9.1 \leq x \leq 9.3$	$9.3 < x \leq 9.5$	$9.5 < x \leq 9.7$	$9.7 < x \leq 9.9$	$9.9 < x \leq 10.1$
Frequency	5	7	15	16	7

(i) Draw a cumulative frequency diagram to illustrate these data. [5]

(ii) Use the diagram to estimate the median and interquartile range of the data. [3]

(iii) Show that there are no outliers in the sample. [3]

(iv) Three of these 50 sacks are selected at random. Find the probability that

(A) in all three, the heating quality  $x$  is more than 9.5, [3]

(B) in at least two, the heating quality  $x$  is more than 9.5. [4]

# Ocr S1 May 2013 Paper

**RC Schank**



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