

8. The probability distribution of the random variable  $X$  is given by the function

$$P(X=x) = 4 + 0.81x^2 \text{ for } x = 1, 2, 3, 4, 5.$$

- (a) Show that  $2 = 0.19$ . (Using this value of  $2$ , drawing the probability distribution of  $X$  is a value) (14)

- (b) Find  $E(X)$  and  $\text{Var}(X)$  (14)

$$E(X) = 3.6$$

$$\text{Var}(X) = 1.76$$

### Section B (30 marks)

9. The weights of a random sample of corns of variety A are summarized in the table below.

Weight	$50 \leq w < 60$	$60 \leq w < 70$	$70 \leq w < 80$	$80 \leq w < 90$
Frequency	11	10	18	7

- (i) Draw a histogram to illustrate these data.  $\bar{x} = 62.49$  (14)

- (ii) Calculate estimates of the mean and standard deviation of  $w$ .  $\sigma = 14.257$  (14)

- (iii) Use your answers to part (ii) to investigate whether there are any outliers.  $34.98$  (14)

The weights,  $x$  grams, of a random sample of 50 corns of variety B are summarized as follows.

$$n = 50 \quad \Sigma x = 3624.5 \quad \Sigma x^2 = 263416$$

- (iv) Calculate the mean and standard deviation of  $x$ .  $\bar{x} = 72.49$  (14)

- (v) Compare the central tendency and variation of the weights of varieties A and B. (14)

10. It is known that on average 80% of corns of a particular variety of tomato will germinate. Ramesh selects 20 of these seeds at random and sows them.

- (i) (A) Find the probability that exactly 12 germinate.  $P = 0.1857$  (14)

- (B) Find the probability that fewer than 12 germinate.  $0.1773$  (14)

The following year Ramesh finds that he still has many seeds left. Because the seeds are not very old, he suspects that the germination rate will be higher. He conducts a trial by randomly selecting 20 seeds and sowing them. He then carries out a hypothesis test at the 1% significance level to investigate whether he is correct.

- (ii) Write down suitable null and alternative hypotheses for the test. Give a reason for your choice of alternative hypothesis. (14)

- (iii) In a trial with  $n = 20$ , Ramesh finds that 13 seeds germinate. Carry out the test. (14)

- (iv) Suppose instead that Ramesh conducts the trial with  $n = 20$ , and finds that 13 seeds germinate. Given that the critical value for the test in this case is 33, complete the test. (14)

- (v) If  $n$  is small, there is no point in carrying out the test at the 1% significance level, as the null hypothesis cannot be rejected however many seeds germinate. Find the smallest value of  $n$  for which the null hypothesis can be rejected, giving appropriate probabilities to justify your answer. (14)

# F334 June 2014 Unofficial Mark Scheme

**JG Myers**



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