

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 (16 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. $1.5\sigma = 21.4$ $3\sigma = 42.8$ (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. $33 < 35 \rightarrow 0.05$ (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)

when $n = 3$

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