

Subject – Math AA(Standard Level)
Topic - Statistics and Probability
Year - May 2021 – Nov 2022
Paper -2
Questions

Question 1

[Maximum mark: 15]

The length, X mm, of a certain species of seashell is normally distributed with mean 25 and variance, σ^2 .

The probability that X is less than 24.15 is 0.1446.

(a) Find $P(24.15 < X < 25)$. [2]

(b) (i) Find σ , the standard deviation of X .

(ii) Hence, find the probability that a seashell selected at random has a length greater than 26 mm. [5]

A random sample of 10 seashells is collected on a beach. Let Y represent the number of seashells with lengths greater than 26 mm.

(c) Find $E(Y)$. [3]

(d) Find the probability that exactly three of these seashells have a length greater than 26 mm. [2]

A seashell selected at random has a length less than 26 mm.

(e) Find the probability that its length is between 24.15 mm and 25 mm. [3]

Question 2

[Maximum mark: 5]

The following table below shows the marks scored by seven students on two different mathematics tests.

Test 1 (x)	15	23	25	30	34	34	40
Test 2 (y)	20	26	27	32	35	37	35

Let L_x be the regression line of x on y . The equation of the line L_x can be written in the form $x = ay + b$.

(a) Find the value of a and the value of b . [2]

Let L_y be the regression line of y on x . The lines L_x and L_y pass through the same point with coordinates (p, q) .

(b) Find the value of p and the value of q . [3]

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