

**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,  $\sigma^2$ .

The probability that  $X$  is less than 24.15 is 0.1446.

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

(b) (i) Find  $\sigma$ , 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]

# Mathematics Sl Paper 2 201tz0

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