

Subjective Questions

Section A

1. (a) Explain how amino acid is transported across plasma membrane into cell. [2 marks]
 - (b) Concentration of iodine in *Nitella* sp. is higher than the environment. However, the plant still absorbs iodine from the environment. Explain how this process happen. [3 marks]
2. Figure 2 show structure of plasma membrane based on fluid mosaic model.



Figure 2

- (a) (i) Name structures Q, R and S. [3 marks]
- (ii) State the characteristics of structure Q. [2 marks]
- (iii) Name the process in which substance moves freely across the plasma membrane through Q and give an example of the substance. [2 marks]

3. Plasma membrane is important in controlling exchange of substances such as nutrients and water in and out of cell. Figure 3.1 shows components of plasma membrane.



Figure 3.1

- (a) (i) Name P and Q. [2 marks]
 - (ii) State the functions of P and Q. [2 marks]
 - (iii) Water molecules diffuse through P. Justify your answer. [1 mark]
- (b) State two differences between processes that occur via Q and R. [1 mark]

(c) Figure 3.2 shows an own method in preparing crispy potatoes.



Figure 3.2

In your opinion, explain which step is important to produce a crispy potato chip. [3 marks]

Biology Form 4 Chapter 3 Exercise

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