

Variation and Selection

Question Paper

Level	IGCSE
Subject	Biology
Exam Board	CIE
Topic	Variation and Selection
Sub-Topic	
Paper Type	Alternative to Practical
Booklet	Question Paper

Time Allowed: 20 minutes

Score: /16

Percentage: /100

1 Slugs and snails are molluscs that can live in water or on land.

Fig. 3.1 shows a slug and a snail.



Fig. 3.1

(a) (i) Describe **two** features, **visible** in Fig. 3.1, that suggest the slug and the snail belong to the same group of molluscs.

- 1
- 2 [2]

(ii) Describe **one** difference, other than size, **visible** in Fig. 3.1, between the slug and the snail.

..... [1]

Fig. 3.2 shows a shell of a mollusc.



Fig. 3.2

(b) Suggest the importance of the shell to molluscs that belong to this group.

.....
..... [1]

[Total: 4]

2 Birds have feathers to cover their bodies.

Fig. 2.1 shows two types of feather, **A** and **B**.



Fig. 2.1

(a) (i) Make a labelled outline drawing of feather **A**.

(ii) Suggest a function of feather **A**.

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..... [1]

(iii) Suggest a function of feather **B** and explain how it is adapted for this function.

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..... [2]

Fig. 2.2 shows feather **B** placed upon a grid. You will use this to help you to estimate the surface area of feather **B**.



Fig. 2.2

(b) (i) Measure the size of one of the grid squares. Use this to calculate the surface area of feather **B**.

Show your working.

area of feather **B**cm² [3]

- (ii) Describe a more accurate method that you could use to find the actual surface area of feather **B**.

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[2]

[Total: 12]