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**QUESTION 1**

According to the passage, the purpose of eel Junction molecules is to

- A. promote a variation in the molecular structure of plants and animals
- B. provide a conduit for information between eels
- C. supply proteins to a duster of cells
- D. initiate the morphoregulatory process
- E. increase the Interactive capabilities of the two classes of adhesion molecules

Correct Answer: B

What makes a rhinoceros look like a rhinoceros, or a petunia like a petunia? Understanding the basis of the generation of the forms, patterns, or shapes of complex organisms is a principal subject of biologist Gerald Edelman's stimulating book *Topobiology*, which explores the links among the development, evolution, form, and function of organisms. In older scientific language, one could say that Edelman has brought a new dimension to morphology, the study of the form and shape of animate and plants, and to histology, the study of the minute structure of tissues. The major thrust of his book is what he calls a morphoregulatory hypothesis, which can be described as the outline of a molecular basis for the formation of pattern, involving three types of genes. In the morphoregulatory sequence, morphoregulatory genes control the production of molecules that cause the formation of clusters of cells. When the cell clusters begin to communicate, they activate another type (selector genes) that then select and switch on a third type of gene (historegulatory genes). In the organisms they have studied, Edelman and his colleagues have found cell adhesion molecules (resulting from morphoregulatory gene action) that are attached to the surface of different cells and link them in clusters. These molecules can appear at different times in the development of a multicellular system, and at various specific sites on the cells. Furthermore, their chemical structure can vary. This tremendous variation allows a great flexibility in the kinds of linkages the molecules effect. A second class of adhesion molecules plays a comparable role in attaching cells to the developing scaffolding of filaments that lie outside cells. Also of particular interest to researchers are what are called cell Junction molecules, composed of clusters of proteins providing small channels from the inside of one cell to the inside of another. These three types of molecules facilitate a kind of conversation among eels that determines the course of development of organisms. It has been possible to demonstrate how important these molecules are by treating tissues with agents that block their functions, thus effectively and drastically changing the organism's development.

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**QUESTION 2**

Motor-scooter dealers attribute a drastic decline in sales over the last few years to a new law requiring motor-scooter riders to wear helmets. Previously, helmets had been obligatory for motorcycle riders but not for motor-scooter riders--a difference that the dealers argue made scooters preferable for many customers. Safety advocates, however, dispute the dealers' explanation, pointing out that the law's introduction coincided with a large increase in the cost of mandatory insurance for both types of vehicle. In evaluating the safety advocates' and the dealers' explanations, it would be most helpful to know which of the following?

- A. Whether there were any motor-scooter riders who regularly wore helmets before the law required them to do so
- B. Whether the cost of mandatory insurance for other motor vehicles has increased at the same rate as the insurance cost for motor scooters and motorcycles
- C. How the accident rate for motor scooters compares to the accident rate for motorcycles
- D. How sales of imported motor scooters have changed compared with sales of domestically produced models



E. How sales of motorcycles that are close in purchase price to motor scooters have changed over the period that scooter sales have declined

Correct Answer: E

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### QUESTION 3

Accounting for 330 known species, the parrot is widespread in tropical regions of several continents, most of them brightly colored, with strong hooked beaks and short legs.

- A. Accounting for 330 known species, the parrot is widespread in tropical regions of several continents, most of them
- B. Representing 330 known species, the parrot is widespread in tropical regions of several continents; most of them are
- C. With 330 known species, the parrot, widespread in tropical regions of several continents, is in most cases
- D. There are 330 known species of parrots, widespread in tropical regions of several continents, and in most cases are
- E. Parrots, of which there are 330 known species, are widespread in tropical regions of several continents; most are

Correct Answer: C

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### QUESTION 4

A certain investment of \$2,000 earns interest at a fixed annual rate, with interest paid monthly to the investor. If the monthly interest payment is \$10, what is the annual interest rate?

- A. 3.6%
- B. 4.8%
- C. 5%
- D. 5.5%
- E. 6%

Correct Answer: E

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### QUESTION 5

If the closing price of stock X on the first trading day last year was \$10, was the closing price of stock X at least \$5 on each of the trading days last year?

(1)

Last year, the highest closing price of stock X was twice the lowest closing price of stock X.

(2)

The highest closing price of stock X last year was \$16.

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A.

Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

B.

Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

C.

BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

D.

EACH statement ALONE is sufficient.

E.

Statements (1) and (2) TOGETHER are NOT sufficient.

Correct Answer: C

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