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QUESTION 1

Having emerged as the United States\\' most popular tourist destination by mid-1997, Las Vegas was expecting to end that year hosting more than 32 million visitors, who were estimated to have spent in excess of $22.5 billion.

A. Las Vegas was expecting to end that year hosting more than 32 million visitors, who were estimated to have

B. Las Vegas was expected to end that year having served as host to more than 32 million visitors who, it was estimated, would have

C. Las Vegas, expecting to end that year having been host to more than 32 million visitors, and It was estimated that they had

D. It was estimated that Las Vegas would end that year having hosted more than 32 million visitors who had

E. it was estimated that Las Vegas, having been host to more than 32 million visitors, who would have

Correct Answer: B

QUESTION 2

The domain of the function $f(x) = \sqrt{\sqrt{x+2} - \sqrt{4-x}}$ is the set of all real numbers x such that

A. -2 x 1

B. -2 x 4

C. 1 x 2

D. 1 x 4

E. 2 x 4

Correct Answer: D

QUESTION 3

In the coordinate plane, if P and Q are the points where the graph of y= c+ 2x- 8 intersects the y-axis, and the positive x-axis, respectively, what is the slope of the line containing P and Q?

A. -2
B. -¼
C. ¼
D. 2
E. 4

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: E

QUESTION 4

The passage suggests that all of the following are true of the cell adhesion molecules mentioned in the highSghted text EXCEPT:

A. Their production is controlled by morphoregutotory genes.

B. Their chemical structure is varied.

C. They are attached to the surface of cells.

D. They Ink cells Into clusters.

E. They trigger the formation of historegulatory genes.

Correct Answer: E

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 te 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 dusters 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.

QUESTION 5

When the newly elected prime minister gave his first official speech, he took pains not to dwell on what might have been if his party should have attained a clear maim its by on how the coalition government, given sufficient time and

appropriate resources, would benefit the country.

A. if his party should have attained a clear majority, but

B. had his party attained a dear majority, and instead focused

C. if his party attained a clear majority, and focusing Instead

D. had his party attained a clear majority, but Instead

E. should his party have attained a dear majority, but rather

Correct Answer: B

QUESTION 6

Which of the following does the passage NOT indicate is practiced by one or more companies in emerging markets discussed in the study?

A. Lowering prices in order to decrease certain types ol losses

B. Reengineering their practices in order to do more with fewer resources

C. Reducing illegal use of their resources by working with regulators

D. Allying with other companies In order to develop environmental sustainability Initiatives

E. Working with outside partners to mitigate risks of the company\\'s investments

Correct Answer: D

Many policymakers adopt a macro approach to environmental problems in emerging markets (countries experiencing rapid economic growth): discussing ambitious regulations in global forums and looking to giant multinational companies and non- governmental organizations (NGOs) for insight. But examining what successful companies in these countries are already doing to make growth more environmentally sustainable may make more sense. One study identifies several such firms that are turning eco-consciousness into a source of competitive advantage. The most salient quality of these highly profitable companies Is that they turn limitations (of resources, labor, and Infrastructure) into opportunities. An Indian cement company suffering water shortages developed the world\\'s most water-efficient cement-making method, using air-cooling rather than water cooling. A Philippines utility reduced its water loss through wastage and illegal tapping from 63 percent (1997) to 12 percent (2010) by making water more affordable for lower-Income consumers. A Chinese company makes air conditioners powered with buildings\\' waste heat, reducing strain on the electric grid. The companies also seek to shape their business environment to support sustainable objectives. Some lobby regulators: a Brazilian organic-sugar producer works with Brazil\\'s government to establish an organic certification system. Some form partnerships: Kenya\\'s Equity Bank allies with international groups to reduce its risks when lending to smallholders or single-family farms; a Brazilian cosmetics company works with suppliers to produce sustainable packaging. Some firms also work to reach and educate lower-income consumers, sacrificing short-term profits to create future markets: a Chilean forestry company organizes local carpenters into networks and connects them to low-income customers. One could quibble with the study. Switzerland\\'s Phil Rosenzweig has argued that management writers are prone to a halo effect: they treat a company\\'s temporary success as proof that It has discovered some eternal principle of good management. That some successful companies have embraced environmental sustainability does not prove that It makes companies successful. Some firms, having prospered, can afford splurging on green Initiatives; some pursue eco-Initiatives for public relations purposes. Nonetheless, the study Is thought-provoking. Critics argue that environmentalism Is a rich- world luxury, but such fears are overblown. When natural resources are scarce and consumers are cash-strapped, sustainability can be a lucrative business strategy

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QUESTION 7

If k is a constant, is 3 a root of $x^2 + kx + 3 = 0$?

(1) k is a root of $x^2 - 16 = 0$.

(2) 1 is a root of $x^2 + kx + 3 = 0$.

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: B

QUESTION 8

Journal

The editor of Metathesis, a new academic journal of literature, manages the peer-review of articles submitted for publication. The journal accepts articles focusing on any of three general subject areas:

comparative literature, modernist literature, and postcolonial literature.

When an article is submitted, the editor has the article peer-reviewed by exactly three experts, none of whom authored or coauthored the article. The table (see the Reviewers/Authors tab) consists of all the authors or coauthors who have

recently submitted articles and all the experts who currently peer-review or have recently peer- reviewed those articles. It also lists the general subject areas for each of the authors and reviewers.

Each author of each submitted article specializes in the general subject area of the article. Moreover, each recently submitted article was peer-reviewed by experts listed in the table.

Review Rules

Scholar	Institutional affiliation	Specialization (General subject area)
Amaros	ABC University	comparative
Borsky	PQR University	modernist
DiNapoli	XYZ University	postcolonial
Farkas	ABC University	postcolonial
Huang	PQR University	comparative
Kenyatta	PQR University	modernist
Laprade	ABC University	comparative
Nichols	XYZ University	modernist
Poundstone	ABC University	modernist

A. Poundstone was a primary reviewer and Kenyatta the secondary reviewer.

B. Nichols was a primary reviewer and Kenyatta the secondary reviewer.

C. Kenyatta was a primary reviewer and Nichols the secondary reviewer.

D. Nichols was a primary reviewer and Farkas the secondary reviewer.

E. Poundstone was a primary reviewer and Huang the secondary reviewer

Correct Answer: C

QUESTION 9

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

QUESTION 10

During the nineteenth century, the popularity of Charles Dickens\\'s fiction owed much to its being so easily adaptable into effective stage versions: so that, during anv given period many as 20 London theaters might be simultaneously in production of adaptations of Dickens\\'s latest story, and thus even nonreaders quickly became acquainted with simplified versions of his works.

A. its being so easily adaptable into effective stage versions; so that, during any given period, as many as 20 London theaters might be simultaneously in production of

B. it being so easy to adapt it for effective stage versions; during any given period, as many as 20 London theaters might have been producing simultaneous

C. the fact that it was so easy to adapt into effective stage versions; during any given period, as many as 20 London theaters might be simultaneously producing

D. the fact that it was so easily adaptable for effective stage versions; during any given period, as many as 20 London theaters simultaneously might be producing

E. the fact of its being so easy to adapt it Into effective stage versions; so during any given period, as many as 20 London theaters might simultaneously be in production of

Correct Answer: C

QUESTION 11

In the xy-plane, the point (0,3) is the vertex of a certain right angle. If the sides of the right angle intersect the x-axis at the points (-4,0) and (b,0), what is the value of b?

A. $\frac{7}{4}$

B. $\frac{9}{4}$

C. $\frac{7}{2}$

D. 5

E. 7

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: B

QUESTION 12

$$\left(\sqrt{15-4\sqrt{14}}+\sqrt{15+4\sqrt{14}}\right)^2 =$$

A. 28

B. 30

C. 32

D. 34

E. 36

Correct Answer: C