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QUESTION 1

According to the passage, Edelman has made innovations in the study of which of the following?

- A. The behavior of multicelular organs
- ii. The molecular structure of animal and plant tissue
- III. The overall structure of complex organisms
- B. i only
- C. ii only
- D. III only
- E. i and ii only
- F. ii and III only

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 cells 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 2

If n is positive integer, which of the following could be equal to $(n+1)^3 - (n-1)^3$?

A)

$$(7^3)(6^3 - 1)$$

B)

$$(7^3)(6^3 + 1)$$

C)

$$(2)(26)(27)$$

D)

$$(3)(31)(32)$$

E)

0

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: D

QUESTION 3

Of the 45 households in a certain neighborhood, 28 subscribe to Newspaper Q, 17 subscribe to Newspaper R, 12 subscribe to Newspaper S, 7 subscribe to both Q and R, 8 subscribe to both Q and S, and 9 subscribe to both R and S. The number of households who subscribe to all three newspapers is equal to the number of households who subscribe to none of the three newspapers. If 39 of the households subscribe to at least one of the three newspapers, how many households subscribe to only one of the newspapers?

A. 15

B. 21

C. 27

D. 33

E. 36

Correct Answer: D

QUESTION 4

Which of the following most logically completes the argument?

Many advocate cost-benefit assessment of environmental policies. Although some costs and benefits are already in monetary terms, others, such as effects on the quality of people's lives, are not. It has been proposed that these costs and benefits be assigned monetary values based on what people say they would pay to avoid or gain them.

However, while this appears to treat everyone's interests alike, it is biased against the interests of certain groups because

- A. cost-benefit analysis as a method of assessing policies was not originally designed to be used to assess environmental policies
- B. a small monetary amount has a greater significance for people who have fewer financial resources
- C. very few environmental policies provide substantial benefits without significant costs
- D. any environmental policy will have costs and benefits that cannot possibly be known in advance
- E. no one can expect to live forever or to maintain perfect health, no matter what environmental policies are in effect

Correct Answer: B

QUESTION 5

Economist: In Nation X, the number of unsold homes on the market recently reached a twenty-year high. The last time the number of unsold homes was that high, a severe economic recession soon followed. Therefore, the nation's economy is almost certainly about to suffer another severe recession.

The economist's reasoning is most vulnerable to criticism on which of the following grounds?

- A. It confuses a claim about the number of unsold homes on the market with a more general claim about an overall economic recession.
- B. It overlooks the possibility that even if one phenomenon causally contributes to another, the latter sometimes, but not always, causally contributes to the former.
- C. It overlooks the possibility that other severe economic recessions in Nation X may have occurred when there were not an unusually large number of unsold homes on the market.
- D. It fails to address adequately the possibility that one phenomenon may closely follow another by coincidence.
- E. It fails to address adequately the possibility that a severe economic recession may itself cause more homes to remain on the market unsold.

Correct Answer: D

QUESTION 6

Although mistaken in assuming a geocentric universe, the astronomer, mathematician, and geographer Ptolemy created works during the first century AD that remain impressive even today for their comprehensive attention to natural phenomena.

A. in assuming a geocentric universe, the astronomer, mathematician, and geographer Ptolemy created works during the first century AD that B. about assuming a geocentric universe, Ptolemy, a first-century AD astronomer, mathematician, and geographer, created work that

C. in assuming in his works that the universe was geocentric, Ptolemy, the astronomer, mathematician, and geographer of the first century AD, in that he assumed a geocentric universe, the work from the first century AD of astronomer, mathematician, and geographer Ptolemy,

D. about having assumed a geocentric universe, the astronomer, mathematician, and geographer Ptolemy created works during the first century AD that

Correct Answer: A

QUESTION 7

The average (arithmetic mean) of a list of 5 numbers is 50. The sum of 2 numbers in the list is 70 and the sum of 2 other numbers in the list is 110. What is the remaining number in the list?

A. 70

B. 90

C. 95

D. 130

E. 140

Correct Answer: A

QUESTION 8

In a class of 21 students, how many scored above the class average (arithmetic mean) on the final exam? (1) The class average is 78.

(2)

The class median is 78.

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: D

QUESTION 9

Voters in Allatia can bypass the legislature and make law by voting directly on initiatives via referenda. Business lobbying groups have spent large sums of money in Allatia on advertising campaigns intended to influence the outcome of business-related referenda, but no initiative that received large financial support from these groups has ever become law via referendum. Nonetheless, most business lobbying groups have decided to continue spending money on advertising designed to sway voters in referenda.

Which of the following, if true, would provide the strongest justification for the business groups' decision?

A. The number of people voting on referenda in Allatia has been steadily increasing in recent years.

B. Complying with the complex requirements that must be met in Allatia before an initiative can be decided via referendum requires the expenditure of a substantial amount of money.

C. Opponents of a referendum that receives financial support from business lobbying groups frequently use that support as an issue to rally opposition to the referendum.

D. Money spent by business lobbying groups to advertise against referendum initiatives unfavorable to their business interests has frequently been a deciding factor in the defeat of such initiatives.

E. A significant percentage of referenda that come before the voters in Allatia are business-related.

Correct Answer: D

QUESTION 10

It is known from cave paintings and other evidence that the hunting people occupying the Bax Cave area in Country X tens of thousands of years ago repeatedly set fire to the surrounding area. Archaeologists hypothesize that because the fires caused later plant growth on the land, the hunters set the fires in order to attract herbivorous prey species. Such actions, they claim, are evidence for the mental capacity to delay gratification for weeks, months, or even years.

Which of the following would it be most useful to determine in evaluating the archaeologists' claim?

A. Whether the Bax Cave area is susceptible to fires caused by lightning strikes

B. Whether remains can be found of hunting tools from tens of thousands of years ago in or near the Bax Cave

- C. Whether people occupying the Bax Cave tens of thousands of years ago consumed plants adapted to fire ecologies
- D. Whether in the immediate aftermath of fires in the Bax Cave area, animals sought by hunters came to seek prey driven out of dens or other shelters
- E. Whether the mental capacity to delay gratification for weeks, months, or even years was exhibited by contemporaries of the people occupying the Bax Cave tens of thousands of years ago

Correct Answer: C

QUESTION 11

A major manufacturer of outdoor clothing spends a significant portion of its overhead costs on transportation in its home markets. Everywhere the cost of fuels, including marine and aviation fuels, has been rising steeply for the last six months.

But during this period the profits of the company have tripled.

Which of the following would, if true, most help explain why the phenomenon described above occurred?

- A. The company owns its own shipping division.
- B. The sales volume of the company is twice as large as that of its largest competitor.
- C. The major competitors of the company in its home markets are companies exporting from overseas.
- D. The company has recently embraced a buy-one-get-one-free policy in its home markets.
- E. The company is implementing a no-returns, no-refunds policy.

Correct Answer: C

QUESTION 12

Which of the following would, if true, most help substantiate the highlighted claim In the first paragraph?

- A. The closer a planet is to its parent star, the more likely it is to be obscured by glare in Hubble images of that star.
- B. Astronomers calculate that most stars that have planets have at least one planet that orbits at a distance no less than that between HR 8799 and its outermost planet
- C. Many of the young stars photographed by Hubble produce at least as much mattered light as does HR 8799 though they distribute that light over a much area.
- D. In 1996, the astronomers examining the Hubble images were able to discern very few extrasolar planets despite having included a large number of images of your>g stars in their examinations.
- E. A large proportion of the stars that are shown in the archived Hubble images and suspected of spawning planets are at least as old as, if not substantially older than, HR 8799.

Correct Answer: E

Previously unknown extrasolar planets—planets outside our solar system— probably await discovery in archival images taken by the Hubble Space Telescope. A new technique allows astronomers to model the amount and distribution of scattered light produced by young stars suspected of spawning planets and remove that light from images of those stars. Once the glare of the parent stars' light is removed, planets may show up in images already taken by Hubble's infrared cameras, since heat emitted by planets produces telltale wavelengths of infrared light. In 2008, astronomers using powerful Earth-based telescopes were able to detect three planets orbiting the star HR 8799 that were not previously detected by astronomers who examined infrared Hubble images of the star in 1998. David Lafreniere—a member of the team of astronomers who detected the planets in 2006—then applied the new technique to those Hubble images and managed to uncover the outermost of the three planets. The others, lying closer to the star, still could not be distinguished against the background of the star's light. Lafreniere's work has helped reaffirm the importance of maintaining long-term archives, and—because Hubble's infrared cameras record some wavelengths of light that cannot penetrate through the atmosphere to reach Earth's surface—revealed new information about the outermost of HR 8799's planets.

QUESTION 13

Riya: Chinese firms have had more success expanding in East Africa than have firms from certain other countries in Asia, Europe, and North America. The Chinese government has coordinated with Chinese firms to have Chinese cultural productions, such as television dramas and news, translated into Swahili. These efforts helped gain acceptance by residents of the region for the Chinese firms that have expanded into the region. Thus if the governments of the other countries with businesses that seek to expand into East Africa were to emulate the Chinese government's approach, their businesses would find just as much success.

Which of the following most clearly identifies an assumption on which Riya's argument depends?

- A. Producers of cultural productions in Europe, North America, and the other Asian countries would be willing to distribute them in East Africa free of charge.
- B. Residents of East Africa have not developed a long-lasting preference for Chinese cultural productions over the productions of other non-East African countries.
- C. The Chinese government controls more of the cultural production in its home country than the governments of the other countries control in their home countries.
- D. The non-Chinese firms seeking to expand into East Africa will not compete directly with the Chinese firms that are already established there.
- E. Translating cultural productions such as television shows into Swahili is not the only intervention by the Chinese government in support of Chinese firms.

Correct Answer: A

QUESTION 14

Is $x^2 - x$ positive?

(1) $1 - \frac{1}{x} > 0$

(2) $x > 1$

- 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 15

The decision as to when to bring charges for a criminal offense is the prerogative of the prosecutor, not the prospective defendant. This prerogative should not be put to unfair advantage. Sometimes decades elapse before charges are brought. Though this may be appropriate when striking new evidence implicates someone, bringing charges after many years simply because evidence favoring the prospective defendant has become inaccessible would be grossly unjust.

Which of the following most accurately states the passage's main point?

- A. There should be safeguards to prevent criminal prosecutors from taking unfair advantage of the prerogative to decide when charges will be brought against a prospective defendant.
- B. Criminal prosecutors have an advantage over prospective defendants in that prosecutors get to decide when, if at all, charges will be brought.
- C. Criminal prosecutors should not take unfair advantage of their prerogative to decide when criminal charges will be brought against a prospective defendant.
- D. In some cases, it is unfair for a prosecutor, many years after an alleged offense has occurred, to bring charges against a prospective defendant for committing that offense.
- E. To bring charges against a prospective defendant after a delay of many years would be unjust.

Correct Answer: D

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