

10 A strand of DNA in a skin cell contains the bases:

A-T-G-C-C-A-T-C-G-G-T-A

After the cell is exposed to ultraviolet light, the strand contains the bases:

A-T-G-G-C-C-A-T-C-G-G-T-A

Which statement describes the result of this exposure?

- (1) A new base has been inserted.
- (2) A base has been deleted.
- (3) One base has been substituted for another.
- (4) There have been no changes in the bases.

11 An amoeba, a one-celled organism, can move, ingest, and transport materials within the cell, because it has

- (1) organs
- (2) organelles
- (3) tissues
- (4) systems

12 In humans, the placenta is essential to the embryo for

- (1) nutrition, excretion, and reproduction
- (2) respiration, nutrition, and excretion
- (3) movement, reproduction, and nutrition
- (4) coordination, movement, and growth

13 A student infected by a common cold virus ran a low-grade fever. After a few days, the student's temperature returned to normal and the student was free of cold symptoms. The fever served as

- (1) an antigen in the circulatory system
- (2) an immune response to a pathogen
- (3) a biological catalyst
- (4) a weakened pathogen

14 Many animals have developed courtship behaviors. Males will often dance, swim, or sing in a particular way to attract a female. Males who are more successful at the courtship behavior will have a greater chance of having more offspring. This behavior is a result of

- (1) natural selection
- (2) genetic engineering
- (3) asexual reproduction
- (4) gene manipulation

15 After a zygote is formed, specialization of cells occurs. Through which process do the cells of a zygote become specialized?

- (1) sexual reproduction
- (2) meiosis
- (3) fertilization
- (4) differentiation

16 A farmer wanted to rid his apple trees of a particular leaf-eating insect. He sprayed his trees with an insecticide that killed 98% of the insects. The survival of 2% of this population of insects is most likely due to

- (1) genes obtained from another species
- (2) certain chemicals that stimulated overproduction
- (3) variations that resulted from sexual reproduction
- (4) their ability to produce food from the pesticide

17 Which occurrence represents an example of evolution?

- (1) Exposure to radiation reduces the rate of mutation in leaf cells.
- (2) A mutation in a liver cell causes a person to produce an enzyme that is less efficient.
- (3) Cells in a zygote eventually change into bone cells or skin cells.
- (4) Some antibiotics are almost useless, because pathogens have developed a resistance to these antibiotics.

18 Populations of aspen trees in the western United States are being destroyed by an unexplained illness. The altered landscape is affecting the animals that live there. Populations of deer mice are increasing greatly in these areas. Unfortunately, these mice often carry a virus that is deadly to humans. This scenario best illustrates that

- (1) a change in the environment always results in disease
- (2) humans are the cause of the breakdown of this ecosystem
- (3) the stability of this ecosystem is limited by the amount of water available
- (4) every population in an ecosystem is linked with other populations

Answers For January 2014 Biology Regents

Peter Simon Sapaty



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managers defense and security commanders and university students especially those interested in advanced MSc and PhD projects on distributed system management as well as philosophers psychologists and United Nations personnel

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The Spatial Grasp Model Peter Simon Sapaty, 2023-01-30 The Spatial Grasp Model suggests uses beyond the theoretical including the examination of hurricanes and forest fires Investigating group behaviour of ocean animals discovery of unknown terrain features and path findings in large transport networks truly demonstrates the real world application of SGL

The role of viable but non-infectious developmental forms in chlamydial biology Robert V Schoborg, Alan Paul Hudson, Jan Rupp, Andreas Pospischil, Nicole Borel, 2014-11-04 The

chlamydiae are Gram negative obligate intracellular bacteria with a complex developmental cycle comprising a metabolically less active infectious stage the elementary body EB and a metabolically more active stage the reticulate body RB They are responsible for many acute and chronic diseases in humans and animals In order to play a causative role in chronic diseases chlamydiae would need to persist and to re activate within infected cells tissues for extended periods of time Persistence in vitro is defined as viable but non cultivable chlamydiae involving morphologically enlarged aberrant and nondividing RBs termed aberrant bodies AB In vitro alterations of the normal developmental cycle of chlamydiae can be induced by the addition of Interferon IFN tumor necrosis factor a TNF a and penicillin G exposure as well as amino acid or iron deprivation monocyte infection and co infection with viruses In vivo key questions include whether or not ABs occur in infected patients and animals and whether such ABs can contribute to prolonged chronic inflammation fibrosis and scarring through continuing stimulation of the host immune system known from diseases such as trachoma pelvic inflammatory disease reactive arthritis and atherosclerosis To date the direct causal role in the pathogenesis of chlamydial infection and persistence in vivo has been questioned since there was no tractable animal model of chlamydial persistence so far A very recent study was able to establish an experimental animal model of in vivo persistence when *C muridarum* vaginally infected mice were gavaged with amoxicillin Amoxicillin treatment induced *C muridarum* to enter the persistent state in vivo Recent in vivo data from patients indicate that viable but non infectious developmental stages are present in the genital tract of chronically infected women and that the gastrointestinal tract might be a reservoir for persistent chlamydial infections at other sites

Fundamentals of Computer Networks Matthew N. O. Sadiku, Cajetan M. Akujuobi, 2022-08-29 This textbook presents computer networks to electrical and computer engineering students in a manner that is clearer more interesting and easier to understand than other texts All principles are presented in a lucid logical step by step manner As much as possible the authors avoid wordiness and giving too much detail that could hide concepts and impede overall understanding of the material Ten review questions in the form of multiple choice objective items are provided at the end of each chapter with answers The review questions are intended to cover the little tricks which the examples and end of chapter problems may not cover They serve as a self test device and help students determine how well they have mastered the chapter

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Answers For January 2014 Biology Regents Book Review: Unveiling the Magic of Language

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