

2002 AP Biology Exam

Directions: Each of the questions or incomplete statements below is followed by five suggested answers or completions. Select the one that is best in each case and then fill in the corresponding oval on the answer sheet.

- In humans, the HIV virus primarily attacks which of the following types of cells?
 (A) Epidermal cells (D) Glial cells
 (B) Red blood cells (E) Neurons
 (C) White blood cells
- In an experiment on birds learning to sing, young male chicks were exposed only to the songs sung by another species. Later, as they approached maturity, songs of their own species were played to them. When the birds reached maturity, they were able to sing neither the typical song of their species nor the full song of the second species. Which of the following accounts for this result?
 (A) Birds innately sing the song typical of their species.
 (B) Birds pass through a critical period early in life when learning their species-typical song is possible.
 (C) Birds can learn their typical song if they hear it at any time.
 (D) Birds must be able to practice their song in order to develop it.
 (E) Birds are capable of imitating any song that they hear.
- A biologist counted 2,500 cells from an embryo on a microscope slide and recorded the following data.

Stage	Number of Cells
Prophase	125
Metaphase	50
Anaphase	50
Telophase	25
Interphase	2,250
Total	2,500

If these cells had been dividing randomly, it could be reasonably concluded that

- the duration of anaphase is approximately one-half that of telophase
 - prophase is approximately three times as long as telophase
 - metaphase is the shortest stage of the cell cycle
 - interphase is the longest stage of the cell cycle
 - the chromosomes can first be seen in prophase
- The different species of finches on the Galapagos Islands are believed to have arisen as a result of natural selection acting on populations of finches that had experienced
 (A) convergent evolution (D) geographic isolation
 (B) gene flow (E) hybrid sterility
 (C) the bottleneck effect
 - Which of the following describes the mechanism by which a plant stem grows toward light?
 (A) The plant seeks light in order to maximize photosynthesis.
 (B) Nerve like impulses stimulate contractile cells on the lighted side of the stem.
 (C) Cells on the dark side of the stem elongate more than those on the lighted side.
 (D) The plant grows into an open area where its leaves will not be shaded by competing plants.
 (E) The greater energy supply on the lighted side of the stem stimulates metabolism and growth on that side.
 - The LEAST effective means of controlling pest species such as rats or roaches over a long period of time is generally to
 (A) limit food supplies
 (B) reduce the number of potential habitats
 (C) distribute pesticides throughout the habitat
 (D) introduce predators of the pest
 (E) introduce a disease which affects only the pest
 - Which of the following levels of organization includes all of the others?

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**Linda Brooke Stabler, Mark
Metz, Allison Wilkes**



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