

Directions: Answer all questions.

Answers must be in essay form. Thicken lines in the appropriate, numbered spaces and use arrows to indicate the correct answer. Do not write in the margins. It is important that you read each question carefully before you begin to write. Write all your answers on the pages following the questions on this booklet.

1. *Substrata are essential components of all cells.*

**Blankets II**

31. Which of the following characteristics is shared by *echinoderms* and *chordates*?
- (A) Radial symmetry
  - (B) Dorsal hollow nerve cord
  - (C) Deuterostome development
  - (D) Pharyngeal gill slits
  - (E) Spiral determinate cleavage

32. During mitosis, which of the following normally occurs?
- (A) Homologous chromosomes pair.
  - (B) Replicated chromosomes line up on the equatorial plate.
  - (C) Tetrads form.
  - (D) Unreplicated chromosomes become oriented in the center of the cell.
  - (E) Maternal and paternal chromatids pair.

33. Which of the following is a symbiotic relationship that was probably present in the first terrestrial plants and is still important for the mineral nutrition of present-day angiosperms?
- (A) Mycorrhizae
  - (B) Lichens
  - (C) Insects pollinating flowers
  - (D) Carnivorous plants feeding on insects
  - (E) Epiphytes growing on a tree trunk

34. Nine percent of a population is homozygous recessive ( $aa$ ) at a certain locus. Assuming that the population is in Hardy-Weinberg equilibrium, which of the following is closest to the frequency of the recessive allele ( $a$ )?
- (A) 0.09
  - (B) 0.27
  - (C) 0.30
  - (D) 0.90
  - (E) 0.97

35. A characteristic shared by fungi and protozoa is that both are generally

- (A) aerobic
- (B) haploid at all stages
- (C) composed of mycelia
- (D) propagated by spores
- (E) capable of phagocytosis

36. Which of the following factors is the most effective in changing the allele frequency in a natural population?

- (A) Large population size
- (B) Low rate of mutation
- (C) Negligible migration
- (D) Random mating
- (E) Selection

37. In the process of succession, which of the following is true of  $K$ -selected plant species?

- (A) They keep their carrying capacity at a minimum level.
- (B) They usually reproduce early in life.
- (C) They are usually found in climax stages of succession.
- (D) They are the dominant species in early stages of succession.
- (E) They have a short lifespan.

38. Which of the following produces the secondary tissues of trees?

- (A) Sapwood
- (B) Cork
- (C) Vascular cambium
- (D) Heartwood
- (E) Cortex

# Multiple Choice Answers Ap Bio 2013

**Mike Jess**



**Multiple Choice Answers Ap Bio 2013:**

## Unveiling the Magic of Words: A Review of "**Multiple Choice Answers Ap Bio 2013**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Multiple Choice Answers Ap Bio 2013**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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