

Example test questions

Multiple choice – choose the 1 BEST answer

1. A _____ is a non-vascular plant.
 - a. Fern
 - b. Pine tree
 - c. Liverwort
 - d. Gymnosperm

5. Dicot floral parts usually occur in multiples of
 - a. Two
 - b. Three
 - c. Four or five
 - d. Seven

8. The type of vascular tissue specialized to transport sugars is called
 - a. Xylem
 - b. Collenchyma
 - c. Phloem
 - d. Sclerenchyma

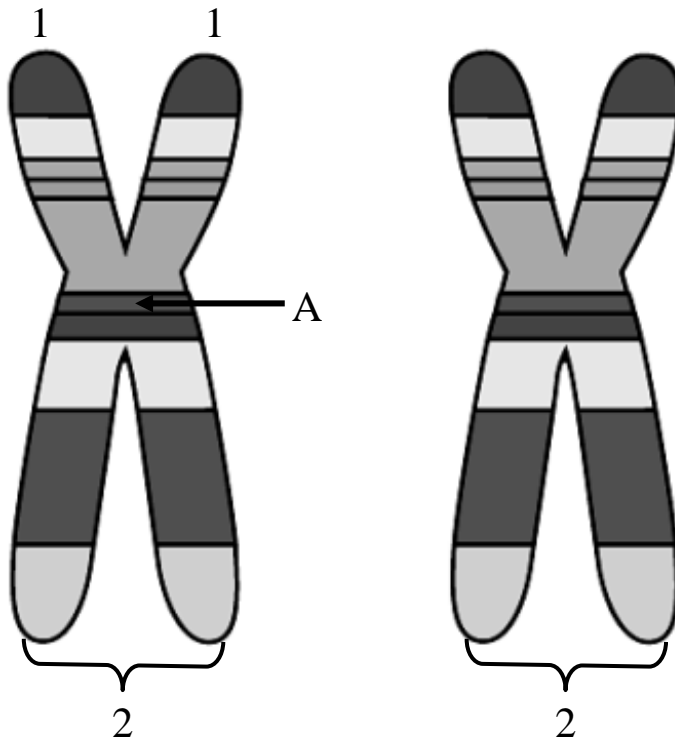
12. Which of the following is a characteristic of a collenchyma cell?
 - a. Capable of dividing
 - b. Alive at maturity
 - c. Reinforced with lignin
 - d. Hardened secondary cell walls

18. Sister chromatids are
 - a. Found only when a cell is not actively dividing
 - b. Linked together at the centromere
 - c. Formed when chromatids separate during cell division
 - d. Made only of DNA

27. The existence of a hydrostatic pressure gradient in phloem can be accounted for by
 - a. The fact that leaves are higher than roots
 - b. Diffusion of water from one sieve-tube cell to the next
 - c. Diffusion of solutes from sieve-tube cells to companion cells
 - d. Loading of sugars into the phloem at sugar sources and the removal of sugars at sugar sinks

28. Which of the following nutrients is most likely to leach from the soil?
 - a. Ca^{2+}
 - b. Mg^{2+}
 - c. H^+
 - d. NO_3^-

32. What force is responsible for the cohesiveness of water?
- Hydrogen bonds
 - Osmosis
 - Ionic bonds
 - Transpiration



Use the above figure to answer the following questions:

46. The structures indicated by the number 1 are
- Sister chromatids
 - Homologous chromosomes
 - Analogs
 - Opposing loci