

1. **Answer:** B

**Explanation:** Wood rays are made of parenchyma cells. The heartwood, in the center of a trunk, is made of older layers of secondary xylem. The lighter-colored sapwood is the younger secondary xylem that conducts the sap.

2. **Answer:** D

**Explanation:** Woody plants grow in diameter in addition to length, thickening in regions where primary growth has ceased. This increase in thickness of stems and roots is called secondary growth and is due to the activity of dividing cells in the lateral meristems.

3. **Answer:** C

**Explanation:** Perennials are plants that live and reproduce for many years.

4. **Answer:** B

**Explanation:** Cork is produced by the cork cambium, which first forms from parenchyma cells in the cortex.

5. **Answer:** A

**Explanation:** The zone of cell division includes the apical meristem and the cells derived from it, which also include the cells of the root cap.