
LAB 2 QUIZ GRADING KEY

HARDWOOD CUTTINGS

Name: _____

I. For 1 point each, indicate whether the following statements are true or false.

(**T** / F) Hardwood cuttings are taken during the Winter when the wood is dormant.

(**T** / F) Hardwood cuttings can be propagated in the dark.

(**T** / F) Bottom heat and cool air temperature are ideal environmental conditions for hardwood cuttings .

(**T** / F) To distinguish between the top and bottom of the cutting, the distal (top) end is cut at 90 and the proximal (basal) end is cut at 45 1-2" below a node.

(T / **F**) Wounding the bark of a hardwood cutting will limit its ability to root.

II. How many buds should be included on a hardwood cutting? (1 point)

At least two buds

III. Why is the number of buds significant? (1 point)

Ensures at least one bud will grow and develop into a shoot.

IV. Name the three different kind of hardwood cuttings. Beside each, list a single distinguishing feature (3 points)

Straight cuttings - don't include the terminal bud

Tip cuttings - include terminal bud

Heel cuttings- include part of the attached stem (often by pulling off the branch)

Bonus: Name one commercially available treatment to promote rooting that we'll use in the lab experiment today? **IBA dip, IBA talc, Rhozopon etc.**

LAB 2 (MAKE UP QUIZ) GRADING KEY

HARDWOOD CUTTINGS

Name: _____

I. For 1 point each, indicate whether the following statements are true or false.

(T / F) Hardwood cuttings are taken during the Winter when the wood is dormant.

(T / F) Hardwood cuttings can be propagated in the dark.

(T / F) Bottom heat and cool air temperature are ideal environmental conditions for hardwood cuttings .

(T / F) To distinguish between the top and bottom of the cutting, the distal (top) end is cut at 90 and the proximal (basal) end is cut at 45 1-2" below a node.

(T / F) Wounding the bark of a hardwood cutting will limit its ability to root.

II. Although there are many different ideas about how deciduous hardwood cuttings should be handled, in general, it is important to keep them in an environment which encourages rooting and discourages bud break. Name two ways to either encourage rooting or discourage budbreak. (2 points)

Wounding, hormone application (auxin), bottom heat,

High humidity, cool air temperature

III. What are the consequences of budbreak? (2 points)

High transpirational water loss and wilting

(Limited root system can't keep up with water loss)

Difficulty in handling and in transplanting the cutting.

V. How many buds should be included on a hardwood cutting? (1 point)

At least two buds

Bonus Question: What is callus?

Undifferentiated cells that form over cut site as part of the wounding response