

Tissue Culture

Assignment 1

This is just a cover sheet, turn to the next page to continue.

ASSIGNMENT 1

Question 1

Define Tissue Culture in your own words.

Question 2

Describe, in your own words, the following botanical terms, with relevance to tissue culture:

- Apical Meristem
- Adventitious growth
- Callus
- Leaf primordium
- Axillary bud
- Biosynthesis
- Bleeding
- Chimeras
- Embryogenesis
- Etiolated
- Epinasty
- Heterotrophic
- Hypocotyl
- Internode
- Juvenility
- Morphogenesis
- Mutogenesis
- Organogenesis
- Plagiotrophic
- Undifferentiated cells.

Question 3

Explain, in your own words, the following physiological processes, and their relevance to tissue culture:

- Photosynthesis
- Transpiration
- Respiration.

Question 4

Differentiate between different types of plant tissue, including:

- Collenchyma
- Sclerenchyma
- Parenchyma
- Xylem

- Phloem
- Meristem

Question 5

Describe the stages of plant growth during tissue culture of a specific plant (of your choice).

Question 6

Send the drawing you made of the bud you cut open in the set task. Label the parts of the bud if you can. If you cannot, ask your tutor to label the parts, or send a drawing that will help you label your dissection.

Don't forget to submit some examples of file cards from your resource file.