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**ASSESSMENT WORKSHEET**

**Grade X**

1. What will happen to a plant if the xylem is removed?
2. Name the tissue that transports water and minerals in plants.

**Competency based Questions**

1. The transport system in plants consists of two kinds of tissues X and Y. The tissue X is made up of living cells and consists of two components A and B. The component A has tiny pores in its end walls and contains only cytoplasm but no nucleus. On the other hand, component B has cytoplasm as well as nucleus. The tissue Y is made up of dead cells and consists of two components C and D. The component C has open ends whereas component D does not have open ends. In flowering plants, either only C or both C and D transport water but D is the only water conducting tissue in non-flowering plants.
   1. What is (i) tissue X (ii) component A, and (iii) component B ?
   2. What is (i) tissue Y (ii) component C, and (iii) component D ?
2. A, B and C are three living organisms. The organism A is a unicellullar fungus which can live without air. It is used in the commercial production of an organic compound P from molasses. The organism B is a unicellular animal which lives in water and feeds and moves by using pseudopodia. It breathes through an organelle Q. The organism C is a tiny animal which acts as a carrier of malarial parasite. It breathes and respires through a kind of tiny holes R and air-tubes S in its body.
   1. What are organisms (i) A (ii) B, and (iii) C ?
   2. Name (i) P (ii) Q (iii) R, and (iv) S.
   3. Which organism/organisms undergo aerobic respiration ?
   4. Which organism/organisms undergo anaerobic respiration?

5.Leaves of a healthy potted plant were coated with petroleum jelly. How will it affect the plant? State two reasons.