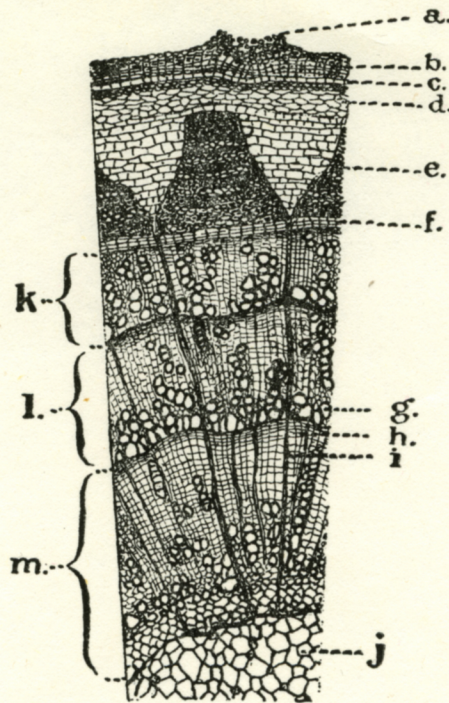


2. Name the parts indicated by the lettered pointers on the accompanying diagram.

Value 25



1. Each -

Answer the following, and give reasons for your answer:

(1) Is the above diagram an Angiosperm or a Gymnosperm?

(2) Is it a Monocotyledon or Dicotyledon?

(3) Is it root or a stem?

2 for answer &
2 for reasons.

10
Value 25
8 each

3. What characteristics are used to determine whether plant families are primitive or advanced? Illustrate your answer by comparing the floral structure of Ranunculaceae with that of Compositae.

Value 25

4. Many plants have different parts of the flower, or pistil, modified to become succulent and sweet to attract birds or mammals to eat them, and thereby disperse the seeds. The skin of the fruit is usually specialized to conserve the moisture and keep the fruit succulent.

In the following fruits, state which parts have become succulent, and which parts form the skin, (when a skin is present).

- (a) Apple; (b) Blackberry; (c) Cherry; (d) Orange;
(e) Strawberry; (f) Tomato.

4 each.

VALUE WILL BE GIVEN FOR ILLUSTRATIVE SKETCHES.

Value 25

5. Under "Sensitivity of Plants" we learn that roots are Geotropic; Hydrotropic; and Apheliotropic (or negatively heliotropic). What do these terms mean? 10

How can each of those tropisms be demonstrated to be distinct from the other two? 5 each (15)