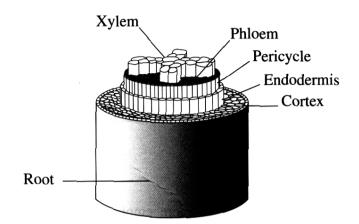
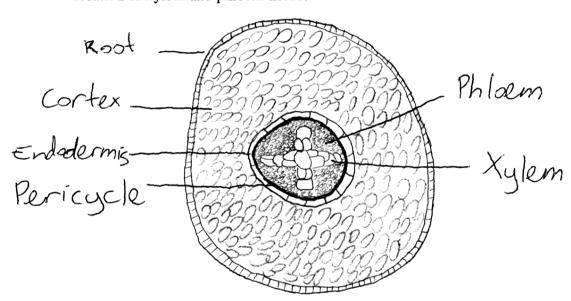
Marks

Question 17 (6 marks)

The diagram shows the arrangement of tissues in a young plant root.



(a) From this diagram, draw a transverse section of the plant root. Clearly label the location of xylem and phloem tissue.



(b) Describe ONE current theory about the processes responsible for the movement of materials through phloem tissue in plants.

Areas in plants where sugar is made

(as a product of photosynthesis) Areas of

the plant that need sugar sources. Areas of

the plant that need sugar start and

the other autients carried in the photosem

vessel (sap) are called sugar 5th le. The concentration

of sup is higher at sugar sources there sugar sinks.

The current theory is 10-that sap follows the concentration

gradient (from source to sink) and so moves materials through