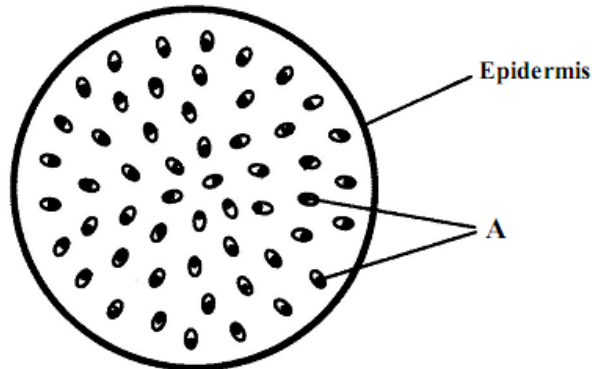


Name: \_\_\_\_\_

**Q.1**

The diagram shows a transverse section through the stem of a monocotyledonous (monocot) plant.



(a) What is meant by the term *monocotyledonous*?

\_\_\_\_\_

(b) Give an example of a monocotyledonous plant. \_\_\_\_\_

(c) Name the structures labelled A. \_\_\_\_\_

(d) How do you know from the diagram that the section is taken from:

(i) a stem? \_\_\_\_\_

(ii) a monocot? \_\_\_\_\_

(e) How are the veins arranged in the leaves of monocots? \_\_\_\_\_

(f) How does the vein arrangement in the leaves of dicot plants differ from that in monocots?

\_\_\_\_\_

**(21)****Q.2**

In the course of your practical work you prepared a transverse section (T.S.) of a dicot stem for microscopic examination.

How did you prepare the T.S.?

\_\_\_\_\_

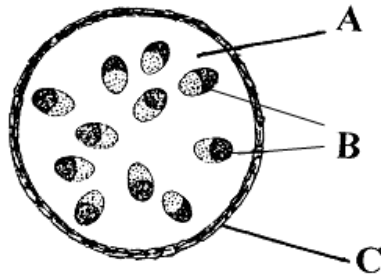
\_\_\_\_\_

\_\_\_\_\_

**(9)**

## Q.3

The diagram below represents a transverse section through part of a plant.

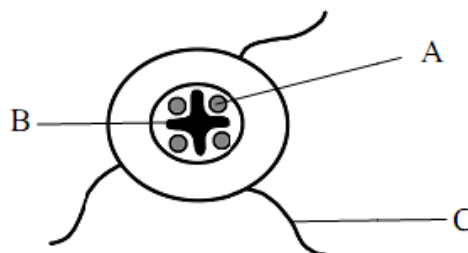


- (a) Does the diagram represent a root or a stem? \_\_\_\_\_
- (b) The letters A, B, C in the diagram, represent three different tissue types. Match each letter with its correct tissue type in the following list:
- Ground tissue. \_\_\_\_\_
- Dermal tissue. \_\_\_\_\_
- Vascular tissue. \_\_\_\_\_
- (c) State a function of vascular tissue. \_\_\_\_\_
- \_\_\_\_\_
- (d) Name the **two** types of vascular tissue in plants.
1. \_\_\_\_\_
2. \_\_\_\_\_

(21)

## Q.4

The diagram shows a transverse section of a dicotyledonous (dicot) root.



- (i) Name the parts labelled A, B and C.
- (ii) State **two** functions of a root.
- (iii) From what part of a seed does the root develop?
- (iv) Give **one** example of a root modified for food storage.
- (v) Plants can be monocotyledonous or dicotyledonous. Give any **one** difference between a monocotyledonous plant and a dicotyledonous plant.
- (vi) Give **one** example of a monocotyledonous plant **and** one example of a dicotyledonous plant.

(30)