



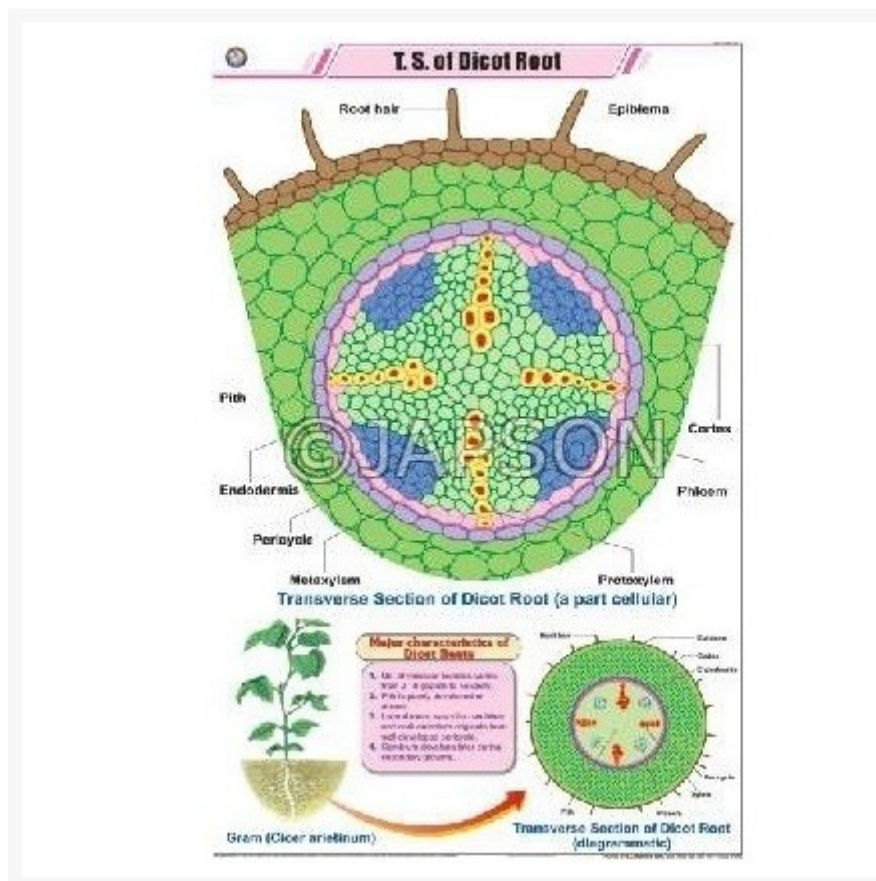
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Root Charts, Botany, School Education

Product Image



Description

Standard Size: 58x90cms

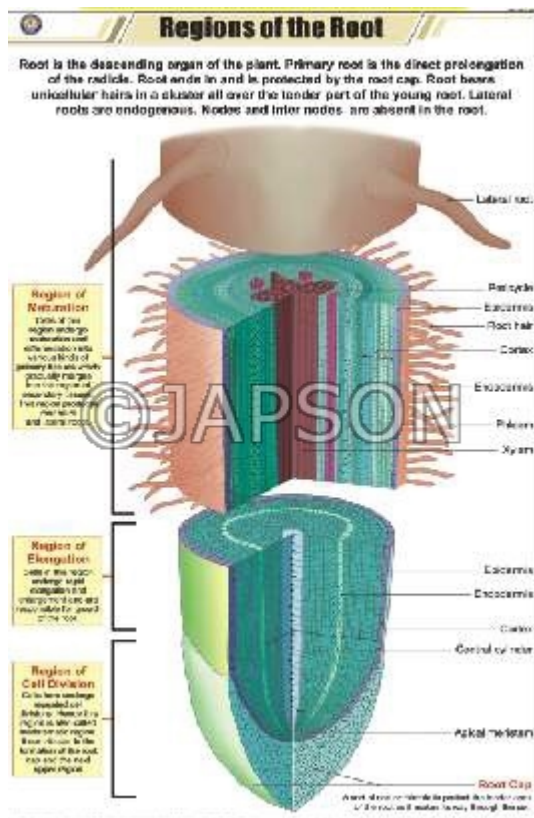
Language: English

Laminated Paper Charts with Plastic Rollers. These Charts have technically accurate and

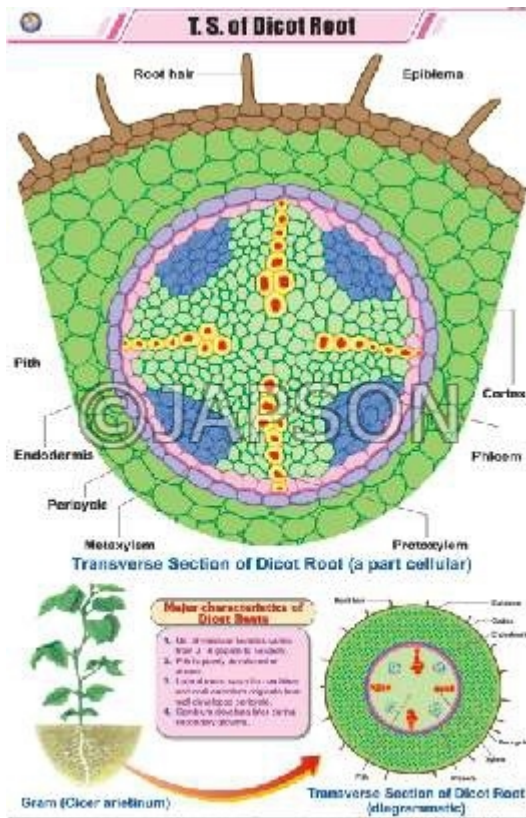
detailed description in vivid colours.

Note: Based on minimum order quantity conditions, Charts can be customized to your requirements in terms of CONTENT, LANGUAGE, SIZE, etc. Please write back to us for discussion.

A. Charts, Regions Of The Root




B. Charts, T.S. Of Dicot Root



D. Charts, Root Systems


E. T.S. Root-Monocot

Root Systems



TAPROOT SYSTEM

Taproot system has the main root (taproot) growing vertically downwards from the stem. From the taproot, smaller lateral roots branch. These roots may further branch to form nodules. Example: carrot, radish and lupini.




FIBROUS ROOT SYSTEM

Taproots in which the primary and secondary roots develop without an apical dominance. It is usually formed by the moderately branching roots growing from the stem. Most monocots have a fibrous root system. Grasses are an example of fibrous root system.

ADVENTITIOUS ROOT SYSTEM

Some roots arise from parts of the plant other than the radicle. Such roots are called adventitious roots. Mosses and sugarcane have isoperforous roots coming out of the lower nodes of stem. These are called stilt roots. Hanging roots of banyan tree are also an example of adventitious roots.



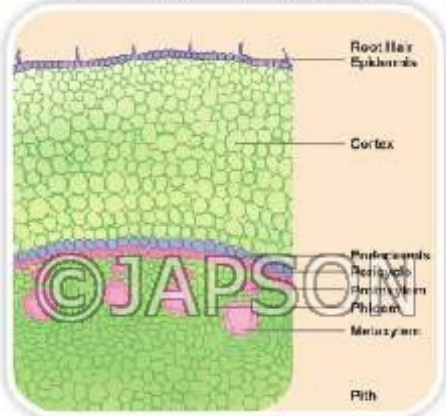
Stilt roots arising from stem in maize

T.S. Root - Monocot

MONOCOT ROOT

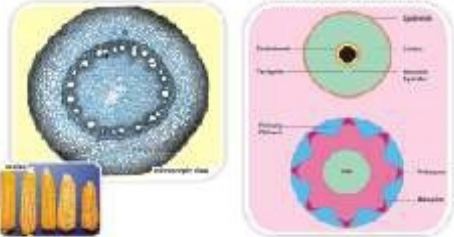
In this, the central part of the ground tissue is very large and well developed. For example: the roots of plants like maize, grass, orchids, grass and lily.

Transverse Section of a Portion of Maize Root



Labels: Root Hair Epidermis, Cortex, Pith, Metaxylem, Phloem, Endodermis, Pericycle.

Monocot Root Cross Section



Labels: Epidermis, Endodermis, Pericycle, Metaxylem, Phloem, Pith.

C. Charts, Root Modification

Root Modification

MODIFICATION OF TAP ROOT



ROOT IN STORAGE

Storage Root: This root is stored in the base and gradually expands to store food.



ROOT IN ROOT

Storage Root: Due to accumulation of food in its upper parts, it appears top-stuffed.



ROOT IN STORAGE

Storage Root: This root is swollen to store and expand towards the base and apex.



ROOT IN ROOT

Storage Root: This root is swollen to store and expand towards the base and apex.

ROOT IN STEM

Stilt Root: These roots arise from the lower nodes of stem. They are called stilt roots. Hanging roots of banyan tree are also an example of adventitious roots.

ROOT IN ROOT

Stilt Root: These roots arise from the lower nodes of stem. They are called stilt roots. Hanging roots of banyan tree are also an example of adventitious roots.

MODIFICATION OF ADVENTITIOUS ROOT



ROOT IN STORAGE

Storage Root: These roots arise from nodules arising from lower nodes.



ROOT IN STORAGE

Storage Root: These roots arise from nodules arising from lower nodes.



ROOT IN STORAGE

Storage Root: These roots arise from nodules arising from lower nodes.

MODIFICATION OF ROOTS FOR ADDITIONAL SUPPORT



ROOT IN STORAGE

Storage Root: These roots arise from the lower nodes of the stem and gradually expand to store food.



ROOT IN STORAGE

Storage Root: These roots arise from the lower nodes of the stem and gradually expand to store food.



ROOT IN STORAGE

Storage Root: These roots arise from the lower nodes of the stem and gradually expand to store food.

Disclaimer

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