# **GRADE 10 LIFE SCIENCES LECTURE NOTES**

### TRANSPORT IN PLANTS AND ANIMALS.

#### Introduction

- Transport is the movement of substances within an organism.
- All living cells require oxygen and food for various metabolic processes.
- These substances must be transported to the cells.
- Metabolic processes in the cells produce excretory products which should be eliminated before they accumulate.
- The excretory products should be transported to sites of excretion.
- Organisms like amoeba are unicellular.
- They have a large surface area to volume ratio.
- The body is in contact with the environment.
- Diffusion is adequate to transport substances across the cell membrane and within the organism.
- Large multi-cellular organisms have complex structure where cells are far from each other hence diffusion alone cannot meet the demand for supply and removal of substances.
- Therefore an elaborate transport system is necessary.

#### Transport in plants

- Simple plants such as mosses and liverworts lack specialized transport system.
- Higher plants have specialized transport systems known as the vascular bundle.
- Xylem transportswater and mineral salts.
- Phloem transports dissolved food substances like sugars.

#### Internal structure of roots and root hairs

- The main functions of roots are;
  - Anchorage
  - > absorption.
  - ➤ storage
  - gaseous exchange.
- . The outermost layer in a root is the piliferous layer.
- This is a special epidermis of young roots whose cells give rise to roothairs.
- Root hairs are microscopic outgrowths of epidermal cells.
- They are found just behind the root tip,

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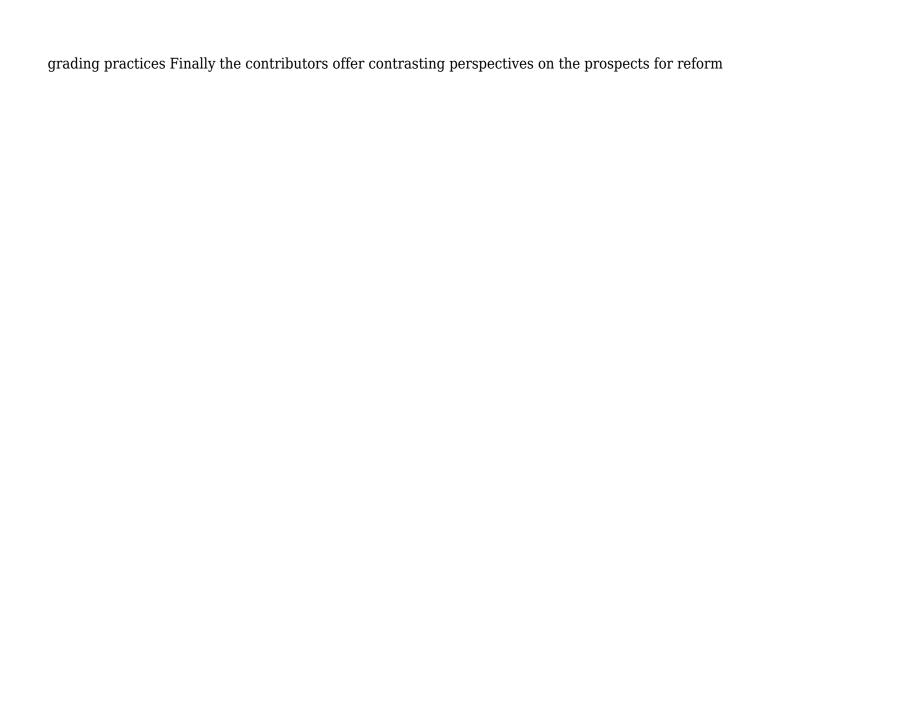
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