

UNIT TEST – BIOLOGY

Characteristics of life and Cell theory

Microscope parts

ocular lens, objective lens, coarse and fine adjustment, stage

Microscope terms – magnification, contrast, resolution

Benefit of studying cells

Parts of a cell – organelles

Plant cell versus Animal cell

Diffusion and Osmosis

Why do cells need to divide?

What do they need to do before they can divide?

DNA = instructions = Chromatin before division, chromosomes during division

What 3 functions does cell division allow an organism to perform?

Describing the Stages of the cell cycle

Difference between Interphase and Mitosis

Prophase, Metaphase, Anaphase, Telophase

Cytokinesis

Cancer vs Normal Cell division

Cell Specialization and cell differentiation

Types of specialized cells

Define the term Tissue

Types of Tissues

Define the term Organ

Examples of organs

Define the term Organ System

11 types of organ systems

Respiratory system

Label diagram

Parts and function

Gas Exchange

Circulatory System

Label diagram heart

Parts and function

Arteries, Veins, Capillaries

Digestive system

Label diagram

Parts and function

Four steps

Mechanical versus chemical digestion

Organ systems working together - homeostasis

Medical Imaging Technologies – benefits of each type

The importance of Public Health

Vaccinations

Smoke free Ontario

Sunscreen benefits

Reducing mosquito populations

Cancer Screening

DNA screening

Social Ethical Issues

Problems and solutions to organ donation

Gene therapy

Types of cloning in plants

Types of cloning in animals

Transgenic organisms

Types of reproductive technologies

Ethical decisions about using reproductive technology