

Science G7
Pointers for Review
2nd Periodic Examination
School Year 2019 – 2020

I. Parts and Functions of Organisms

A. Microscopy

1. The Microscope and Its Historical Development
2. Parts and Functions of a Compound Light Microscope
3. Focusing and Manipulating the Compound Light Microscope

B. Levels of Biological Organization

1. The Different Levels of Biological Organization
2. The Characteristics of Life

C. Cell Structures and Functions

1. Types of Cells Found in Living Things: Animal and Plant Cells
2. The Cell Theory and the Importance of Cell
3. Parts and Functions of a Typical Cell
4. Comparison of a plant cells and animal cells

D. Microorganisms

1. Bacteria
2. Protists
3. Fungi
4. Beneficial and Harmful Effects of Microorganisms

II. Heredity: Inheritance and Variation

- A. Asexual Reproduction in Lower Forms of Animals
- B. Sexual reproduction
- C. Comparison of Asexual from Sexual reproduction
- D. Process of Fertilization

III. Ecosystems

- A. Components of an ecosystem
- B. Ecosystem Functions
- C. Ecological relationships
 - a. Symbiotic relationships
 - b. Non symbiotic relationships
- D. Transfer of energy through trophic levels
- E. Ecological Relationships and Energy Flow in Ecosystem
- F. Sustaining the Ecosystem and Its Resources