

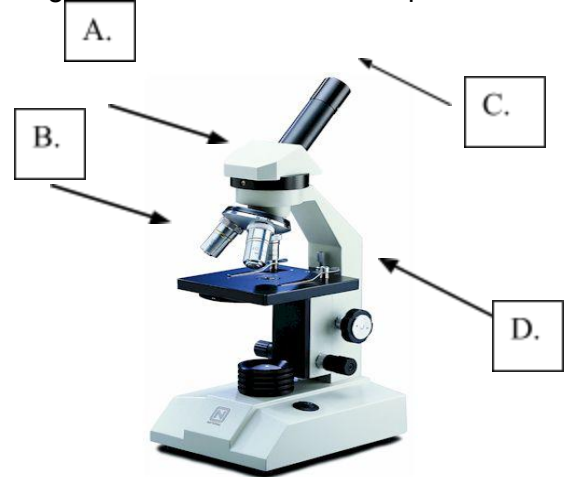
GCS Grade 7 Science Unit C Unit Test: Cellular Structure and Function

- Why was the invention of the light microscope helpful to scientists?
 - The microscope helped people focus light
 - The microscope made it possible for people learn about cells
 - The microscope helped scientists understand how to use lenses.
 - The microscope helped learn about atoms
- All of the following scientists contributed to cell theory EXCEPT:
 - Schielden.
 - Hooke
 - Leeuwenhoek
 - Percy
- When looking under the microscope, you should start with the _____ power objective.
 - Lowest
 - Highest
 - Most focused
 - Least focused
- You should always carry a microscope by the base and the _____.
 - Eyepiece
 - Stage
 - Arm
 - Nosepiece
- Cell theory was developed by who?
 - Hooke
 - Watson
 - Einstein
 - Many scientists contributed
- All of the following are a part of cell theory EXCEPT:
 - All living things are made of cells.
 - Cells cannot reproduce.
 - Cells come from other cells.
 - Cells are the basic unit of life.
- When using a microscope, you should follow all of the following rules EXCEPT
 - When moving the microscope, always carry it by the arm and the base.
 - Always turn off the light source when you leave the microscope.
 - Only use the coarse adjustment knob when you are on the highest magnification.
 - Start with the lowest power objective when first looking at the object.
- Fill in the blank: To determine the total magnification you should _____ the magnification of the eyepiece and the objective.
 - Add
 - Divide
 - Multiply
 - Subtract
- The scientist that examined cork under a microscope and named cells was
 - Hooke
 - Virchow
 - Schwann
 - Mendel
- What are organelles?
 - Small organs inside the human body
 - Small structures that exist only in the animal cell.
 - Small structures inside a cell that carry out specific functions
 - Small structures that exist only in plant cells.
- Living things contain units of structure and function that arise from preexisting units. This statement best describes the
 - cell theory
 - Concept of natural selection
 - lock-and-key model of enzyme activity
 - heterotroph hypothesis

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12. Which cell organelle is responsible for providing energy for the cell.
- Cell Membrane
 - Golgi Apparatus
 - Nucleus
 - Mitochondria
13. Which organelle does a plant cell contain that an animal cell does not?
- Cell Wall
 - Chromosome
 - Mitochondria
 - Vacuole
14. Which organelle controls all cell activities and contains the genetic material?
- Mitochondria
 - Nucleus
 - Cell membrane
 - Chloroplast
15. Which organelle is responsible for transporting materials through the cell?
- Nucleus
 - Ribosomes
 - Endoplasmic Reticulum
 - Golgi Apparatus
16. Which organelle acts as the packaging area?
- Nucleus
 - Ribosomes
 - Endoplasmic Reticulum
 - Golgi Apparatus

Using the picture of the microscope for 17-20



17. Which letter represents the objective lenses?
- A
 - B
 - C
 - D
18. Which letter represents the stage?
- A
 - B
 - C
 - D
19. Which letter represents eye piece?
- A
 - B
 - C
 - D
20. What does letter D represent?
- Stage
 - Lens
 - Coarse focus knob
 - On/off button