Cells and Microscopy Quiz

Biology · Answer Key · 15 Questions

1. Which instrument is primarily used to view cells that are too small to be seen by the naked eye?

A) Telescope
B) Microscope
C) Stethoscope
D) Periscope

2. What is the basic structural and functional unit of all living organisms?

A) Atom
B) Molecule
C) Cell
D) Tissue

3. Which part of a microscope is used to adjust the focus when using high-power objectives?

A) Stage
B) Diaphragm
C) Fine adjustment knob
D) Coarse adjustment knob

4. Which organelle is often referred to as the 'powerhouse' of the cell?

A) Nucleus
B) Mitochondria
C) Ribosome
D) Golgi apparatus

5. What structure surrounds the cell and regulates what enters and leaves?

A) Cell wall
B) Cytoplasm
C) Cell membrane
D) Nucleus

6. Which organelle contains the genetic material of a eukaryotic cell?

A) Nucleus
B) Vacuole
C) Lysosome
D) Endoplasmic reticulum

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7. In a microscope, what part supports the slide being viewed?

A) Eyepiece
B) Stage
C) Base
D) Arm

8. Which type of cell has a rigid cell wall and chloroplasts?

A) Animal cell
B) Bacterial cell
C) Plant cell
D) Virus

9. What is the function of chloroplasts in plant cells?

A) Respiration
B) Digestion
C) Photosynthesis
D) Protein synthesis

10. Which lens is located closest to the specimen on a microscope?

A) Eyepiece
B) Objective lens
C) Condenser
D) Mirror

11. What is the total magnification of a microscope with a 10x eyepiece and a 40x objective lens?

A) 40x
B) 50x
C) 400x
D) 1000x

12. Which organelle is responsible for synthesizing proteins?

A) Ribosome
B) Mitochondria
C) Nucleolus
D) Vacuole

13. What is the jelly-like substance that fills the inside of a cell?

A) Nucleoplasm
B) Cytoplasm
C) Cell sap
D) Blood

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14. Which part of the microscope controls the amount of light passing through the specimen?

A) Stage clips
B) Diaphragm
C) Coarse knob
D) Eyepiece

15. What is the primary difference between prokaryotic and eukaryotic cells?

A) Size
B) Presence of a nucleus
C) Ability to move
D) Presence of cell walls

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