



Unit 1 – Introduction to Biology

Lesson 006 Quiz: Using the Microscope

Question 1

Why are microscopes essential in biology?

- A.** They make organisms grow larger
- B.** They allow scientists to observe structures invisible to the naked eye
- C.** They replace laboratory experiments
- D.** They create new cells
- E.** They eliminate the need for observation

Question 2

Which scientist is well known for observing microorganisms with early microscopes?

- A. Charles Darwin
- B. Gregor Mendel
- C. Louis Pasteur
- D. Antonie van Leeuwenhoek
- E. James Watson

Question 3

Which of the following is NOT a part of a compound light microscope?

- A. Eyepiece
- B. Objective lens
- C. Stage
- D. Fine adjustment knob
- E. Thermometer

Question 4

What is the main function of the objective lenses?

- A. Provide light
- B. Hold the specimen
- C. Magnify the specimen
- D. Move the stage
- E. Measure temperature

Question 5

What does magnification do?

- A. Improves image clarity only
- B. Makes an object appear larger
- C. Changes the specimen
- D. Measures distance
- E. Increases resolution automatically

Question 6

What does resolution determine?

- A. The brightness of the image
- B. The size of the microscope
- C. How clearly two nearby points can be distinguished
- D. The weight of the specimen
- E. The color of the image

Question 7

When using a microscope, which objective should you begin with?

- A. Highest-power objective
- B. Oil immersion objective
- C. Medium-power objective
- D. Lowest-power objective
- E. Any objective

Question 8

Why should scientists adjust the light while using a microscope?

- A. To protect the microscope and produce a clear image
- B. To increase magnification
- C. To enlarge the specimen
- D. To replace focusing
- E. To change resolution

Question 9

What major discovery became possible because of microscopes?

- A. Gravity
- B. Electricity
- C. Cells and microorganisms
- D. Continents
- E. Planets

Question 10

Modern microscopes allow scientists to study which of the following?

- A. Only plant leaves
- B. Only bacteria
- C. Viruses, DNA, and activities inside living cells
- D. Only insects
- E. Only fossils

Correct Answers

1. B 2. D 3. E 4. C 5. B 6. C 7. D 8. A 9. C 10. C

Did you get all the answers correct?

If not, don't worry—just watch Lesson 6 again and try the quiz one more time.