



Name _____ Class _____ Date _____

1 When onion cells are observed with a compound light microscope, **which laboratory technique** is used to make the nucleus more visible?

- A centrifugation
- B chromatography
- C microdissection
- D staining



2 Which **term** is defined as all the **chemical reactions** that are required to sustain life?

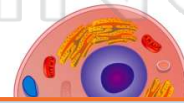
- A metabolism
- B regulation
- C nutrition
- D synthesis

3 When **preparing a wet mount of onion cells**, a student put a drop of Lugol's iodine solution on the slide. Lugol's iodine solution was applied in order to

- A prevent air bubbles

4 **Cytoplasm** consists chiefly of which compound?

- A cellulose
- B carbon dioxide



5



PREVIEW

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7

- A lipids
- B fatty acids
- C simple sugars
- D amino acids

- A larger and brighter
- B smaller and brighter
- C larger and darker
- D smaller and darker

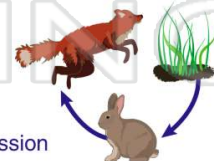


9 What is a major distinction between **living** and **nonliving matter**?

- A Living matter is unable to diffuse materials
- B Living matter is able to control chemical activities with organic catalysts
- C Living matter is able to create energy
- D Living matter is unable to use energy for metabolic activities.

10 **Energy** stored in organic molecules is passed from **producers to consumers**. This statement best describes an event in

- A the process of photosynthesis
- B natural selection
- C a food chain
- D ecological succession






Name _____ Class _____ Date _____

1 When onion cells are observed with a compound light microscope, **which laboratory technique** is used to make the nucleus more visible? (D)

A centrifugation
B chromatography
C microdissection
D staining



2 Which **term** is defined as all the **chemical reactions** that are required to sustain life? (A)

A metabolism
B regulation
C nutrition
D synthesis

3 When **preparing a wet mount of onion cells**, a student put a drop of Lugol's iodine solution on the slide. Lugol's iodine solution was applied in order to (B)

A prevent air bubbles

4 **Cytoplasm** consists chiefly of which compound? (D)

A cellulose
B carbon dioxide



5 (A)



PREVIEW

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7 (A)

A lipids
B fatty acids
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A larger and brighter
B smaller and brighter
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9 What is a major distinction between **living** and **nonliving matter**? (B)

A Living matter is unable to diffuse materials
B Living matter is able to control chemical activities with organic catalysts
C Living matter is able to create energy
D Living matter is unable to use energy for metabolic activities.

10 **Energy** stored in organic molecules is passed from **producers to consumers**. This statement best describes an event in (C)

A the process of photosynthesis
B natural selection
C a food chain
D ecological succession

