

Advanced Viticulture and Enology Studies

Viticulture · Answer Key · 10 Questions

1. What is the primary biological process by which yeast converts grape sugars into ethanol and carbon dioxide?

- A) Photosynthesis
- B) Fermentation**
- C) Respiration
- D) Transpiration

2. Which specific part of the grapevine is responsible for absorbing water and mineral nutrients from the soil?

- A) Tendrils
- B) Xylem
- C) Roots**
- D) Petiole

3. What is the botanical term for the process of the grapevine's berries changing color from green to red, purple, or gold?

- A) Veraison**
- B) Budburst
- C) Dormancy
- D) Flowering

4. In wine production, what is the 'must'?

- A) The residual skin and seeds after pressing
- B) The fermented alcohol byproduct
- C) The freshly crushed fruit juice containing skins and seeds**
- D) The yeast used to initiate fermentation

5. Which environmental factor is primarily managed by the viticultural practice of 'canopy management'?

- A) Soil pH levels
- B) Sunlight exposure to grape clusters**
- C) Trellis post installation
- D) Annual rainfall amounts

6. What is the primary purpose of 'racking' during the winemaking process?

- A) To add yeast to the juice
- B) To clarify the wine by separating it from settled sediment**
- C) To increase the alcohol content
- D) To bottle the final product

7. Which common grapevine pest is a microscopic aphid that feeds on the roots and leaves of *Vitis vinifera*?

A) Phylloxera

B) Mealybug

C) Spider mite

D) Fruit fly

8. What is the primary role of tartaric acid in the chemical composition of grapes?

A) Providing protein for yeast

B) Maintaining the pH balance and stability of the wine

C) Attracting pollinators to the vine

D) Converting sunlight into sugar

9. Which geographical feature is most critical in creating a 'rain shadow' effect that influences vineyard climate?

A) Coastal plains

B) River valleys

C) Mountain ranges

D) Plateaus

10. What is the main difference between 'vinification' and 'viticulture'?

A) Vinification is the study of soil, while viticulture is the study of chemistry

B) Viticulture is the cultivation of grapes, while vinification is the production of wine

C) They are synonymous terms

D) Vinification occurs in the vineyard, while viticulture occurs in the cellar