

Test Questions

952.141 Compact Course „Physiology and Management of Grapevine“

WS 2011/12

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1. Point out differences between summer and winter bud (potential, sketch).
2. Contrast the growth patterns of wild vs. cultivated grapevine.
3. Discuss the flower morphology of Vitis and the consequences for fruit set.
4. What is topophysis and what are the consequences for practical viticulture?
5. Explain the grapevine plant material production of rootstock/scion.
6. Explain the chart "yearly veg. and gen. growth" (picture shown).
7. List the environmental factors affecting grapevine growth (vegetative and generative).
8. What is a plant clone?
9. What factors may impact your decision of vine trellising?
10. Pros and Cons of your favorite training system
11. Contrast the Guyot system with the Scott Henry and the GDC System. Use a sketch.
12. Comment on the figure (Leaf area/fruit weight) of different Degree Days.
13. What are the effects of row direction and row spacing on light interception in the canopy?
14. What canopy management activities do you know?
15. Comment on the physiological background of girdling.
16. Describe the physiological background of the chart "assimilate transportation in grapevine" by Koblet
17. What impacts carbohydrate partitioning in grapevine?
18. What is "Vine balance" and why is it important for grapevine growing?
19. Explain the assimilate transportation system (phloem loading/unloading).
20. Point out the aims of Canopy Management?
21. What can be done to minimize erosion in the vineyard?
22. Describe the berry development of grapevine
23. Comment on the morphology of the grapevine berry, make a sketch
24. Explain the phytohormonal changes during berry development.
25. Explain maturity (physiological ripeness) of the grape Berry - in detail-
26. Mention three typical Austrian white wines and 2 red wines!
27. How many distinct wine regions are in Austria, please name them!

The exam will cover 8 questions covering the lecture, and two questions covering the practices (Dr. Anhalt).