

Student Name _____

Turfgrass Culture, ORH3222C Section 7982
and Grad. – Res. And Develop. in Turfgrass Sci. HOS6523 Section

5819

University of Florida - Davie

<http://grove.ufl.edu/~turf/turfcult/>

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Hour Test 1- repeat

(Multiple choice - circle the right answers, 3 points each)

1. Grasses are:
 - a) flowering plants
 - b) nonflowering plants
 - c) in the family Cyperaceae
 - d) All of the above
 - e) None of the above
2. Horizontal aboveground runners:
 - a) culms
 - b) inflorescences
 - c) racemes
 - d) rhizomes
 - e) stolons
3. The scientific name for Kentucky bluegrass is:
 - a) *Poa annua*
 - b) *Festuca arundinacea*
 - c) *Poa pratensis*
 - d) *Cynodon dactylon*
 - e) *Stenotaphrum secundatum*

4. According to Dr. Phil Busey, the main reason to water in the early morning is to:
 - a) reduce disease
 - b) reduce evaporative loss
 - c) reduce percolation
 - d) reduce water pressure
 - e) reduce wind drift
5. The lawn mower was invented:
 - a) by the WPA to stimulate employment during the Great Depression
 - b) by Thomas Jefferson
 - c) by Wall Street to provide employment for investment bankers
 - d) in Great Britain as a derivative of the textile industry
 - e) in Japan to take care of tea gardens
6. The common name of *Paspalum notatum* is:
 - a) bahiagrass
 - b) bentgrass
 - c) bermudagrass
 - d) blue grama
 - e) buffalograss
7. The two types of water conducting elements in a turfgrass vascular system are:
 - a) capillary and gravity
 - b) evaporation and transpiration
 - c) infiltration and percolation
 - d) micropores and macropores
 - e) xylem and phloem
8. The main advantage of using a sprig vs. a plug is that:
 - a) sprigs are less likely to go to seed
 - b) less fertilizer is required
 - c) plugs are not available
 - d) there will be less internal competition and higher growth rate
 - e) there will be less problem from mole crickets

9. Which soil particle size component has the strongest overall effect on soil characteristics:
 - a) clay
 - b) gravel
 - c) sand
 - d) silt
 - e) None of the above
10. Turfgrass density refers to:
 - a) grain
 - b) growth habit
 - c) leaf width
 - d) shoot density
 - e) uniformity
11. Compared with most other higher plants, grasses:
 - a) are insect pollinated
 - b) have showy flowers
 - c) do not tolerate close grazing
 - d) have intercalary meristems
 - e) are ornamental rather than utilitarian
12. A part of the grass leaf that defines a line of separation of the blade from the sheath:
 - a) auricle
 - b) bract
 - c) collar
 - d) culm
 - e) spikelet
13. The two goals of irrigation layout design are:
 - a) To meet net irrigation requirement
 - b) To conserve water and maintain water quality
 - c) To reduce energy and reduce water use
 - d) To saturate the area with as much water as possible
 - e) Uniformity and control

14. A type of mower which uses flat or slightly tilted blades that rotate around a vertical spindle and that shatters grass leaves rather than cutting them:
 - a) flail
 - b) fly
 - c) reel
 - d) rotary
 - e) string trimmer
15. The first of seven steps in turf establishment is
 - a) install irrigation system
 - b) kill existing vegetation
 - c) plan
 - d) plant the grass
 - e) prepare the seedbed
16. What is the strongest explanation that some reported measurements of turfgrass evapotranspiration have shown unverifiable large differences among turfgrasses:
 - a) measurements in small containers are distorted by location factors
 - b) the world's rising CO₂ concentration has blurred the effects of physiology
 - c) the effect of grasses is confounded by differences in mowing height
 - d) people insist on overwatering
 - e) studies fail to consider other effects like traffic, mowing, and shade
17. Which is an important cultivar of bermudagrass:
 - a) Argentine
 - b) Floratam
 - c) K-31
 - d) Seville
 - e) Tifway
18. If any nutrients are added to the soil before planting turfgrass, then types that are most justifiable are:
 - a) natural nitrogen sources such as cow manure
 - b) nutrients used in small quantities such as Fe (iron) and Mn (manganese)
 - c) quick available N (nitrogen) sources as ammonium nitrate
 - d) quick available organic N (nitrogen) such as urea
 - e) slowly mobile nutrients such as P (phosphorus) and Ca (Calcium)

19. Which turfgrass is a low maintenance bunch grass and considered a lower water use alternative to Kentucky bluegrass?
- a) *Agrostis palustris*
 - b) *Cynodon dactylon*
 - c) *Festuca arundinacea*
 - d) *Poa pratensis*
 - e) *Poa trivialis*
20. C₄ grasses:
- a) are generally propagated sexually
 - b) are grown infrequently in Florida
 - c) are well adapted to low light levels
 - d) thrive best in warm climates
 - e) would be strongly enhanced by increased atmospheric CO₂ concentration
21. What are the most essential facts to know in deciding whether to water?
- a) recent runoff, percolation, and number of minutes watered
 - b) root available water capacity and recent evapotranspiration and rainfall
 - c) the coefficient of irrigation uniformity
 - d) the type of sprinkler system, type of grass, and infiltration rate
 - e) None of the above
22. The advantage of using a plug vs. a sprig is that:
- a) a plug involves less plant material
 - b) a plug is somewhat protected from the effects of drying and weeds
 - c) plugs use less fertilizer
 - d) sprigs are not generally available
 - e) there is no environmental downside to plugs
23. The production of carbon dioxide from turf, involving the consumption of carbohydrates, is:
- a) translocation
 - b) photosynthesis
 - c) respiration
 - d) evapotranspiration
 - e) denitrification

24. The approximate number of grass species in the world is:
- a) 1 million
 - b) 20,000
 - c) 400
 - d) 10,000
 - e) 250,000
25. The primary driver of evapotranspiration is:
- a) chlorophyll
 - b) CO₂
 - c) rain
 - d) sun
 - e) wind

(Fill in the blank etc.)

26. List at least 4 advantages (benefits) and 4 disadvantages of turfgrass (8 pts):

(Adv 1) _____

(Adv 2) _____

(Adv 3) _____

(Adv 4) _____

(Adv 5) _____

(Dis 1) _____

(Dis 2) _____

(Dis 3) _____

(Dis 4) _____

(Dis 5) _____

27. Correct the spelling (7 pts):

Cyodon dacylom

Festuca arundinaceae

Lolium perenne

Poa trivialis

Stenotarphum secundatum

28. Pick any turfgrass species and complete the following table (10 pts):

Charateristic	Your response
English common name	
Scientific name	
Warm-season or cool-season	
Sun grass, shade, or both?	
Name of a common pest problem	
Main use (lawns, golf, etc.)	
Establishment rate (fast, slow, etc.)	
Normally propagated by (sexual or asexual)	
Texture (fine, coarse, etc.)	
Bunch grass or sod forming grass	

29. Describe briefly a turfgrass operation that you have seen or know about from class, e.g. sod harvesting or the manner of doing subsurface drainage on the Dolphins Training Facility (10 pts):