

30 Multiple Choice Questions

1. As a planet, we have plenty of potable water because
 - A. most of the earth's surface is water
 - B. the evapotranspiration cycle purifies all our water
 - C. water pollution is rare
 - D. none of the above
2. Pure water is most important to
 - A. urban recreation
 - B. life on earth
 - C. agriculture
 - D. transportation
3. Scarcity of water in the western U.S. led to the innovative development of
 - A. cisterns
 - B. low-flush toilets
 - C. xeriscaping
 - D. none of the above
4. A great water use and conservation plan would have the most impact for
 - A. a restaurant
 - B. a hospital
 - C. multi-family housing
 - D. retail stores
5. To make a great water use and conservation plan it is essential
 - A. to understand all the potential water sources and uses
 - B. to use low-flush toilets
 - C. incorporate cisterns and catchment
 - D. retain storm water on site
6. A viable source of potable water for a rural homesite is
 - A. rainwater
 - B. a well
 - C. surface water (stream or lake)
 - D. all of the above with proper filtering, treatment, and testing



7. Stormwater can be managed at the
 - A. neighborhood scale
 - B. site scale
 - C. building scale
 - D. all of the above

8. Village Homes in Davis, CA, and the Portland Water Pollution Control Laboratory are similar in that the both
 - A. use scuppers to direct stormwater from roofs
 - B. have on-site stormwater retention ponds
 - C. use bioswales to retain and filter stormwater
 - D. all of the above

9. Besides aiding in stormwater management and flood mitigation, green roofs
 - A. absorb pollutants from rainwater
 - B. mitigate the urban heat island effect
 - C. provide wildlife habitat
 - D. all of the above

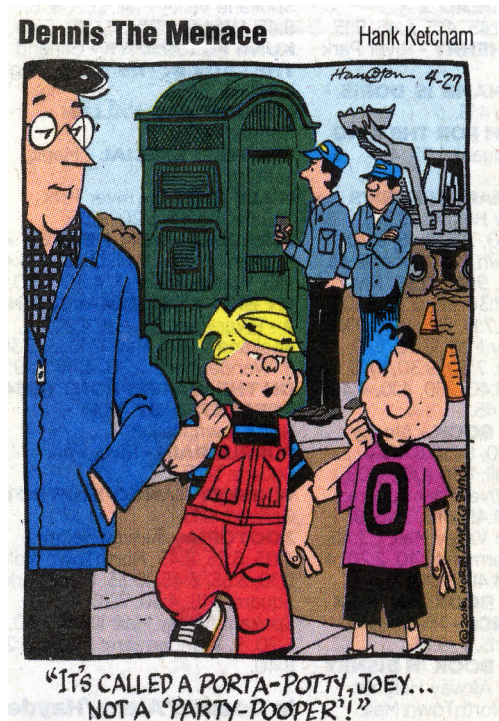
10. An example of a building that currently treats black water on site is
 - A. the San Francisco PUD building
 - B. Biosphere 2
 - C. the Center for Regenerative Studies
 - D. none of the above

11. Gray water can be treated on site
 - A. through biological means
 - B. mechanical means
 - C. both of the above
 - D. none of the above

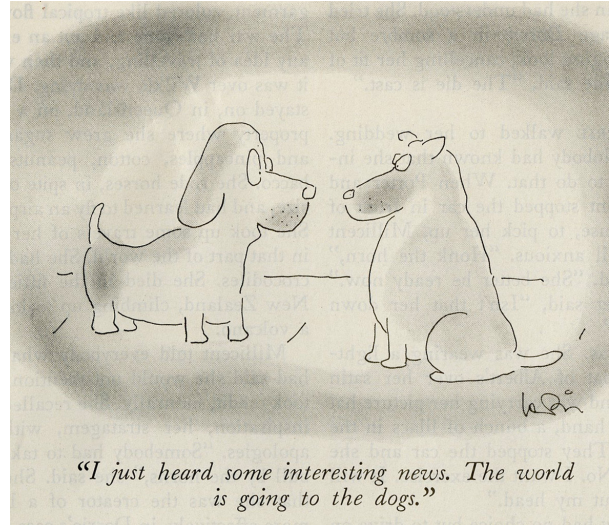
12. Biological treatment of black water is feasible at the
 - A. community scale
 - B. neighborhood scale
 - C. building scale
 - D. all of the above

13. Public toilets in Copenhagen are
 - A. of a sleek modern design
 - B. elaborate Victorian ensembles
 - C. primitive enclosed trough urinals
 - D. all of the above

14. Toilets whose performance beats the U.S. plumbing code requirements include
 - A. waterless urinals
 - B. dual-flush toilets
 - C. high efficiency toilets
 - D. all of the above



15. The most recent concern in public bathroom design is
- A. meeting ADA requirements
 - B. providing all gender facilities
 - C. solving public urination problems
 - D. all of the above
16. Paradise Creek is currently a potential potable water source for Moscow because
- A. Moscow is near the headwaters of the creek
 - B. woodlands upstream from Moscow have a purifying effect on the creek
 - C. Moscow has strict regulations for managing stormwater on construction sites
 - D. none of the above
17. The two phases of the Sweet Avenue/University of Idaho Paradise Creek restoration project have mitigated
- A. channelization
 - B. downstream flooding
 - C. creek bed erosion
 - D. all of the above
18. Since restoration was completed in 1999, the segment of Paradise Creek between Sweet Avenue and Sixth Street
- A. has never flooded
 - B. flooded only once
 - C. flooded only a few times
 - D. floods every year
19. To help improve the earth's overall ecological health, architects should design buildings that
- A. are LEED platinum
 - B. are sustainable
 - C. are regenerative
 - D. meet passive house standards
20. London City Hall and Bystrom's Sun Valley house are similar in that they
- A. are examples of regenerative design
 - B. are technically sophisticated
 - C. achieved their nation's highest sustainability rating
 - D. all of the above
21. SBSE's Regeneration-based checklist is superior to Wells' Wilderness-based checklist in that
- A. it helps visualize site and building performance differences
 - B. it is more accurate
 - C. it gives sustainability high marks
 - D. all of the above



22. Studies indicate green buildings have an economic advantage over built-to-code buildings in that
- A. provide lower energy bills
 - B. have greater market value
 - C. increase worker productivity
 - D. all of the above
23. The biggest influence the LEED rating system has had on the building industry is
- A. assuring all new buildings are sustainable
 - B. expanding the marketplace availability of green building products
 - C. making expensive first-cost buildings more desirable
 - D. all of the above
24. The best way to assure that a building meets its energy-savings and performance goals is to
- A. achieve LEED Platinum
 - B. do energy performance modeling before its design is finalized
 - C. conduct and respond to on-going post-occupancy evaluation
 - D. all of the above
25. Waste can be diverted from the municipal solid waste stream by
- A. instituting an aggressive recycling agenda
 - B. requiring composting of food and yard wastes
 - C. managing waste stream on construction sites
 - D. all of the above
26. Seattle's goal of achieving 60% recycling or diversion is
- A. not feasible
 - B. about the E.U. average
 - C. in line with Germany's performance
 - D. is better than France's performance
27. Valid reasons for encouraging recycling and diversion include
- A. energy savings
 - B. job creation
 - C. resource conservation
 - D. all of the above



28. Answers to the four questions about environmental costs are related to
- A. relative efficiency of buildings and their systems
 - B. appropriate matching of energy source to task
 - C. selecting an optimum amount of embodied energy
 - D. all of the above
29. The way to assess the economic wisdom of design options is
- A. compare first costs
 - B. compare operating costs
 - C. conduct a life-cycle cost analysis
 - D. compare potential LEED points
30. The most impact on bottom line economic performance of a green building is
- A. energy savings
 - B. building life expectancy
 - C. improved worker productivity
 - D. all of the above

Get ready for Quiz #3!

