

30 Multiple Choice Questions



1. Typically the purest water in the evapotranspiration cycle can be found in
  - A. the water table
  - B. surface water
  - C. the clouds
  - D. all of the above
2. Use of pesticides and herbicides in agriculture poses the risk of
  - A. cross-media pollution
  - B. erosion
  - C. monoculture
  - D. all of the above
3. Which of the following toilets meets code requirements?
  - A. waterless urinals
  - B. dual-flush toilets
  - C. low-flush toilets
  - D. all of the above
4. For the highest quality stormwater catchment, construct the roof with
  - A. cedar shakes
  - B. architectural composite shingles
  - C. standing seam steel roofing
  - D. any of the above
5. The notable water feature common to ancient Greek amphitheaters is
  - A. fountains
  - B. cisterns
  - C. community toilets
  - D. all of the above

6. Second generation living machines feature
- A. "tidal" action for treatment of waste water
  - B. a greenhouse to protect plants from winter weather
  - C. the use of aquatic animals
  - D. all of the above
7. Effective stormwater management can be accomplished using
- A. bioswales for treating parking lot run-off
  - B. green roofs
  - C. stormwater catchment systems
  - D. all of the above
8. An extensive green roof will
- A. eliminate storm water run-off
  - B. reduce flood potential
  - C. worsen the heat island effect
  - D. all of the above
9. The reason that biological treatment of black water is possible is
- A. black water is toxin-free
  - B. black water is nutrient-rich
  - C. black water requires filtration of grit
  - D. none of the above
10. The oldest living machine was installed to treat waste water at
- A. BedZED in Beddington, UK
  - B. Paws Inc. in Muncie, IN
  - C. IslandWood School on Bainbridge Island, WA
  - D. the MERTS campus of Clatsop Community College in Astoria, OR
11. You can reduce, but not eliminate black water generated on site by using
- A. an incinerating toilet
  - B. a waterless urinal
  - C. a composting toilet
  - D. all of the above
12. Planning for composting toilets must consider
- A. maintaining an operating temperature of 50°F or more
  - B. routing for ventilation ducts
  - C. signage with use instructions
  - D. all of the above
13. Reflective glass-walled public toilets
- A. offer maximum privacy while offering a panoramic view
  - B. are a public nuisance
  - C. pop-up for nighttime use
  - D. all of the above

14. Paradise Creek's water quality is best
- A. in the forested uplands
  - B. in the agricultural lands
  - C. in the urban areas
  - D. downstream from the Moscow Waste Water Treatment plant
15. Paradise Creek restoration projects should include
- A. elimination of channelization
  - B. wider riparian zones to reduce flooding downstream
  - C. tree and grass plantings to control erosion and provide shading
  - D. all of the above
16. The average US Municipal Solid Waste utility recycling rate is
- A. over 50%
  - B. 40% to 50%
  - C. 30% to 40%
  - D. 20% to 30%



17. A recent UI Sustainability Center study found that solid waste dumpsters on campus
- A. contain about 68% recyclable materials
  - B. contain about 38% recyclable materials
  - C. contain about 30% recyclable materials
  - D. contain no recyclable materials
18. Construction site waste management goals for landfill diversion of over 90%
- A. are unattainable
  - B. are among the criteria for meeting the Living Building Challenge
  - C. are required for LEED certification
  - D. none of the above
19. To mitigate global warming buildings must be designed to
- A. be sustainable
  - B. greatly reduce carbon emissions
  - C. be self-sufficient
  - D. all of the above

20. What score would a sustainable building achieve on the SBSE revision of Malcolm Wells' wilderness-based checklist for design and construction?

- A. a negative score
- B. about zero
- C. a positive score
- D. a perfect score

21. The best green buildings

- A. exceed building code compliance
- B. are LEED Platinum
- C. meet the Living Building Challenge
- D. are restorative (perfect Wells score)

22. Architecture 2030 goal to reduce carbon emissions from new buildings to zero by 2030 has been endorsed by

- A. the AIA
- B. the US Conference of Mayors
- C. the State of California
- D. all of the above

23. Sir Norman Foster's London City Hall (aka GLA Building) has a Display Energy Certificate rating of

- A. A
- B. C
- C. E
- D. G

24. The first law efficiency of the United States' total energy use is

- A. more than 90%
- B. about 80%
- C. about 50%
- D. less than 40%

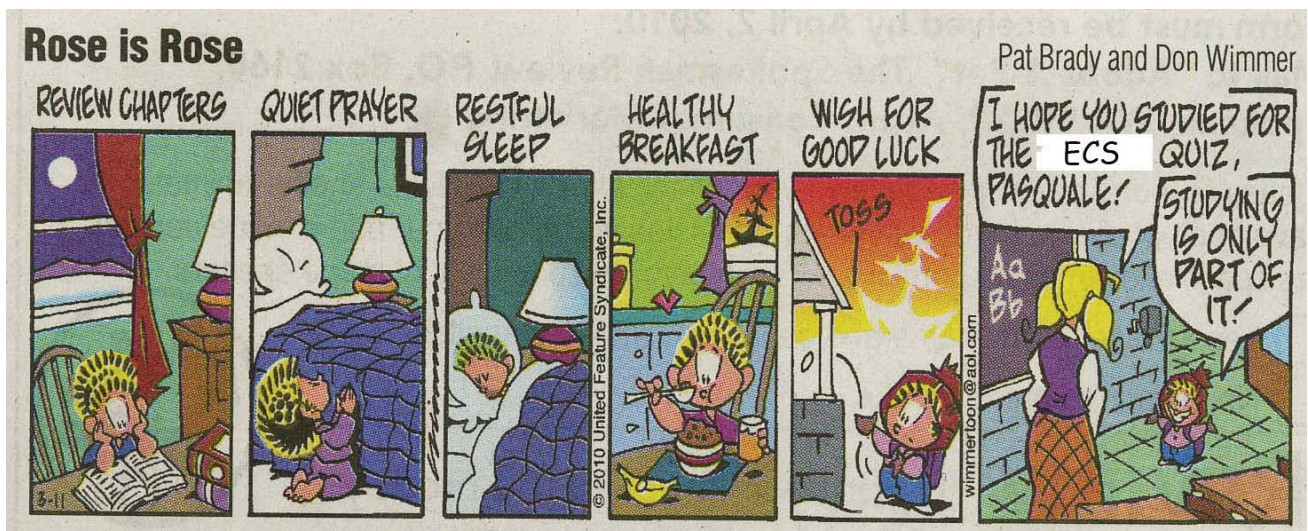
25. Life Cycle Costing helps

- A. account for enhanced worker productivity
- B. account for first costs and operational costs of the building
- C. account for tax credits and fuel cost inflation
- D. all of the above

26. Embodied energy is the total Btus in

- A. materials manufacture
- B. fuel extraction
- C. materials and fuel delivery
- D. all of the above

27. The greatest financial benefit of a green building is
- A. energy savings
  - B. water savings
  - C. operations and maintenance savings
  - D. worker productivity improvement
28. European regulations now require that public buildings
- A. comply to the Kyoto Accord
  - B. post an energy performance certificate
  - C. generate 10% of their own energy on site
  - D. all of the above
29. European green architecture is encouraged by
- A. the green party
  - B. European Union regulations
  - C. signing on to the Kyoto Accord
  - D. all of the above
30. The wave form ceilings in the Inland Revenue Buildings
- A. allow for exposed thermal mass
  - B. are used for nighttime ventilation
  - C. allow for integration of electric light and daylight
  - D. all of the above



Get ready for Quiz #3!