

30 Multiple Choice Questions



1. The evapotranspiration cycle is also known as
 - A. the water table
 - B. the quality cycle
 - C. rain and respiration cycle
 - D. all of the above
2. Which activity poses the risk of cross-media pollution?
 - A. landfilling
 - B. industry
 - C. agriculture
 - D. all of the above
3. In order to conserve water, the arid Western US pioneered the use of
 - A. waterless urinals
 - B. dual-flush toilets
 - C. low-flush toilets
 - D. all of the above
4. Untreated stormwater can be used for
 - A. potable uses
 - B. watering lawns and ornamentals
 - C. composting toilets
 - D. all 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. A feature common to living machines and constructed wetlands is
- A. biological 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. The Portland Water Pollution Control Lab is notable in its stormwater management, using
- A. bioswales for treating parking lot run-off
 - B. a retention pond for neighborhood storm water control and treatment
 - C. obvious scuppers for directing roof run-off to bioswales
 - 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. A living machine, that has been replaced by a non-biological technology, was installed to treat waste water at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. all of the above
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. room for collection chambers
 - B. routing for ventilation ducts
 - C. means of adding other compostable materials
 - D. all of the above
13. Pop-up urinals in London offer
- A. maximum privacy while offering a panoramic view
 - B. convenience for late-night revelers
 - C. access for 20 pence
 - D. all of the above

14. Paradise Creek's water quality is threatened by
- A. creek bed channelization
 - B. legal dumping in its headwaters
 - C. lack of regulation of building site stormwater management in Moscow
 - D. all of the above
15. The Sweet Avenue creek restoration project
- A. uses bioswales to catch and treat parking lot run-off
 - B. includes a rebuilt, wider riparian zone to reduce flooding downstream
 - C. features trees and grass plantings to control erosion and provide shading
 - D. all of the above
16. Typically, modern landfills
- A. harvest methane gas
 - B. are sealed to prevent cross-media pollution
 - C. are covered to enhance containment
 - D. all of the above

Dilbert



17. Which common product poses a toxic waste hazard?
- A. incandescent lamps
 - B. CFLs
 - C. LEDs
 - D. all of the above
18. To reduce solid waste, building designers can
- A. specify construction site waste management
 - B. design an easy to use recycling system
 - C. design the building for disassembly and demountability
 - D. all 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 code-compliant building achieve on the SBSE revision of Malcolm Wells' wilderness-based checklist for design and construction?

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

21. Division of the SBSE revision of Malcolm Wells' wilderness-based checklist for design and construction into site issues and building issues allows quick visual assessment of

- A. building code compliance
- B. lack of building and site development integration
- C. attention to societal issues
- D. all of the above

22. Architecture 2030 strives to

- A. reduce carbon emissions from new buildings to zero by 2030
- B. influence US energy policy
- C. educate architects in carbon reducing design strategies in conjunction with AIA
- D. all of the above

23. In the Pacific Northwest you can seek assistance for high-performance, low-energy building design for free or a nominal fee at Betterbricks labs in

- A. Boise
- B. Portland
- C. Bozeman
- D. all of the above

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. A weakness in the simple Life Cycle Costing formula is

- A. no accounting for enhanced worker productivity
- B. inflexible reckoning of the lifetime of the building
- C. no accounting for tax credits and fuel cost inflation
- D. all of the above

26. Alternatives to assessing economic viability based on GNP consider

- A. health and social cost
- B. environmental costs
- C. future scarcities and costs
- D. all of the above

DILBERT Scott Adams



27. For academic buildings, a LEED Gold building
- A. will cost more than a LEED Silver building
 - B. will cost less than a LEED Platinum building
 - C. both A and B
 - D. may cost more or less than other LEED-rated buildings
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. Exemplars of European green architecture use
- A. external shading devices
 - B. night ventilation
 - C. solar-powered stack ventilation
 - D. all of the above
30. The recent European project that aims at carbon neutrality is
- A. Scottish Parliament
 - B. the British Museum
 - C. BedZED
 - D. all of the above

