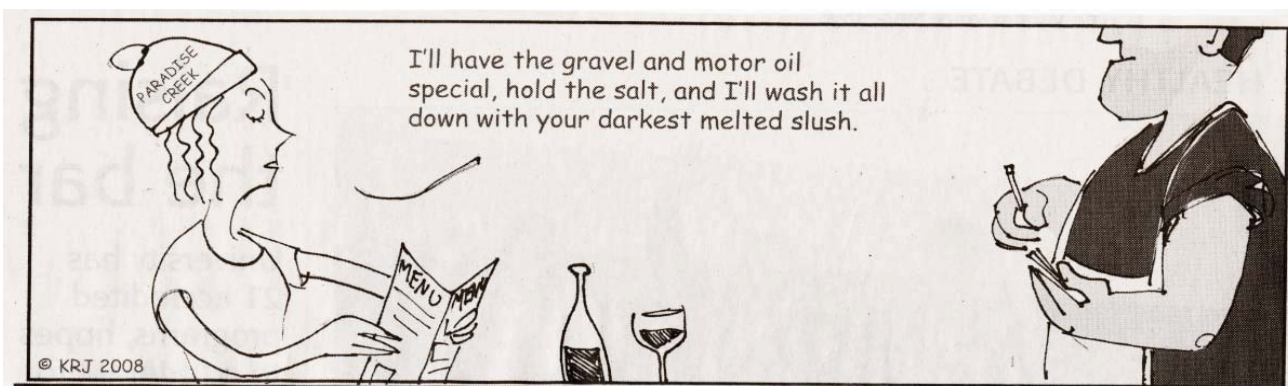


30 Multiple Choice Questions

1. Which process can have a role in purifying water?
 - A. evaporation
 - B. percolation through the soil
 - C. contact with plants and animals
 - D. all of the above
2. Which process can have a role in polluting water?
 - A. rainfall
 - B. percolation through the soil
 - C. contact with plants and animals
 - D. all of the above
3. A water issue that is pertinent to the Western US is
 - A. deserts and frequent droughts
 - B. global warming
 - C. lack of major river basins
 - D. all of the above
4. Water use can be reduced by
 - A. using waterless urinals
 - B. recycling grey water for reuse
 - C. replacing lawns with xeriscape
 - D. all of the above
5. The notable water feature common to ancient Greek amphitheaters is
 - A. fountains
 - B. cisterns
 - C. scuppers
 - D. all of the above
6. Biological treatment of waste water can be accomplished by
 - A. a city-scale constructed wetlands
 - B. a campus-scale living machine
 - C. a building-scale living machine
 - D. all of the above
7. Village Homes in Davis, California, is notable in its stormwater management, using
 - A. bioswales for treating parking lot run-off
 - B. bioswales for managing stormwater
 - C. art object downspouts and cisterns to capture roof water
 - D. all of the above

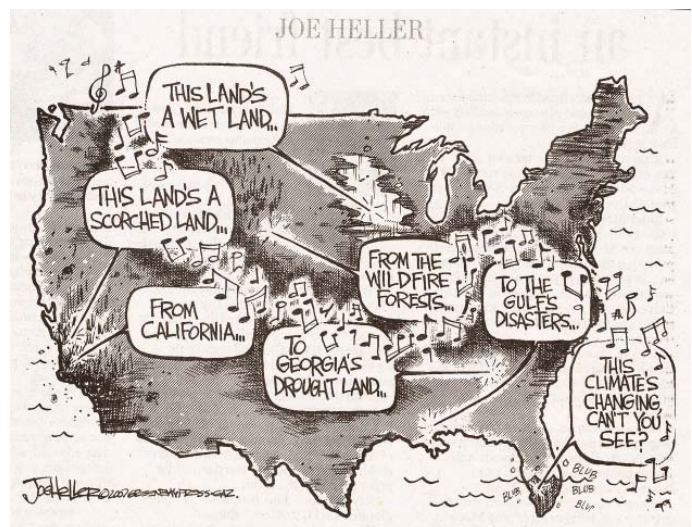


8. You can grow large alpine shrubs on
- A. an intensive green roof
 - B. an extensive green roof
 - C. both of the above
 - D. none of the above
9. The reason that biological treatment of black water is possible is
- A. black water is toxin-free
 - B. black water is nutrient-rich
 - C. black water requires filtration of grit
 - D. none of the above
10. A living machine is 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. The toilet that creates no black water is
- A. a ULF toilet
 - B. a waterless urinal
 - C. a composting toilet
 - D. B and C above
12. Composting toilets
- A. can't be used in public buildings
 - B. create a serious odor problem
 - C. produce humus that can be used as fertilizer
 - D. all of the above
13. When designing a public restroom you must
- A. provide a 4-foot radius unobstructed space for maneuvering wheelchairs
 - B. block all sight lines from outside the room to toilets
 - C. make plumbing fittings easily accessible
 - D. all of the above



14. Paradise Creek in Latah County is polluted by
- farmland run-off
 - legal dumping in its headwaters
 - Moscow Waste Water Treatment Plant effluent
 - all of the above
15. The Sweet Avenue creek restoration project
- uses bioswales to catch and treat parking lot run-off
 - includes a rebuilt, wider riparian zone to reduce flooding downstream
 - features trees and grass plantings to control erosion and provide shading
 - all of the above
16. Typically, landfill wastes are about
- 10% recyclable and compostable
 - 25% recyclable and compostable
 - 50% recyclable and compostable
 - 90% recyclable and compostable
17. Toxic brownfields can be restored by
- solar detoxification
 - bioswales
 - bioremediation
 - none of the above
18. To reduce solid waste, building designers can
- specify construction site waste management
 - design an easy to use recycling system
 - design the building for disassembly and demountability
 - all of the above
19. To mitigate global warming buildings must be designed to
- be sustainable
 - greatly reduce carbon emissions
 - be self-sufficient
 - all of the above

20. A building that achieves a score of zero on the SBSE revision of Malcolm Wells' wilderness-based checklist for design and construction would be considered
- a bad building
 - a code-compliant building
 - a sustainable building
 - a regenerative building



21. When rated using the SBSE/Wells checklist, both the Sun Valley house and London City Hall demonstrate a common problem, which is
- ineffective passive design strategies
 - lack of building and site development integration
 - too much glazing
 - all of the above
22. Signees to the 2010 Imperative pledge to
- teach design strategies to reduce carbon emissions in all studios
 - achieve complete ecological literacy in history/theory courses
 - be housed on a campus that is striving for carbon neutrality
 - all of the above
23. Design assistance for high-performance low-energy building design is available for free or a nominal fee to practitioners in
- the Pacific Northwest
 - Northern California
 - Southern California
 - all of the above
24. The first law efficiency of the United States' use of energy is
- more than 90%
 - about 80%
 - about 50%
 - less than 40%
25. Life Cycle Costing takes into account
- time preference for money
 - the whole lifetime of the building
 - tax credits and inflation
 - all of the above
26. The biggest payback of a well-designed green building is
- energy savings
 - increased worker productivity
 - increased market value
 - lower first costs
27. The first-cost disadvantage of a LEED Gold building is
- more than 10%
 - paid back in energy savings in more than 3 decades
 - less than 5%
 - equal to the advantage of increased productivity



28. Green architecture in European commercial buildings has been happening

- A. because of the Kyoto Accord
- B. for more than a decade
- C. with the advocacy of political parties
- D. all of the above

29. Exemplars of European green architecture use

- A. external shading devices
- B. natural 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

