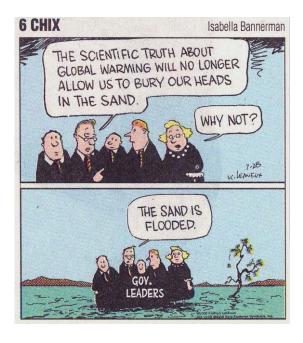
Arch 464 ECS Midterm II Spring 2007

30 Multiple Choice Questions

- 1. If global warming melts the icecaps and glaciers, the amount of potable water available for our use will
 - A. be about 3.3% of the earth's total water
 - B. be about 2.3% of the earth's total water
 - C. stay at about the same percentage
 - D. decrease to about 0.1% of the earth's total water
- 2. Cross-media pollution of water tables has the most profound effect on
 - A. agriculture
 - B. health
 - C. industry
 - D. all of the above
- 3. In the Western US global warming will have the most serious impact on which long-standing water problem?
 - A. draught frequency
 - B. dam building
 - C. subsistence
 - D. all of the above
- 4. An example of a self-contained watershed is
 - A. Crater Lake
 - B. Hetch Hetchy Reservoir
 - C. Lucky Peak Reservoir
 - D. all of the above
- 5. An example of a building that uses a cistern as a design element is
 - A. the amphitheaters at Delos, Delphi, and Epidauros
 - B. the Lady Bird Johnson Wildflower Center in Austin
 - C. Corbu's Notre Dame du Haut at Ronchamps
 - D. all of the above
- 6. A constructed wetland cannot be used to treat black water
 - A. in individual homes
 - B. for an urban block
 - C. for a small town or neighborhood
 - D. none of the above



	C. large roofs such as manufacturing plants and convention centers D. all of the above
8. Sto	rmwater must be retained on site A. in the entire U.S. B. in Portland, OR C. in Moscow, ID D. none of the above
9. The	Ul's Sweet Avenue site is an example of creek restoration to A. provide wildlife habitat B. mitigate flooding C. control stormwater run-off and mitigate run-off pollution D. all of the above
10. The	section of our local Paradise Creek that doesn't contribute to its pollution is A. the forested uplands B. the agricultural lands C. the urban areas D. none of the above
11. Blad	ck water may contain A. human wastes B. harsh and toxic chemicals C. soaps and cleansers D. all of the above
12. Livi	ng machines can be used for A. off-site treatment of black water B. on-site treatment of black water C. on-site treatment of gray water D. all of the above
13. Wa ⁻	ter conservation can be achieved by A. recycling grey water B. collecting rainwater in cisterns C. using low-flow fixtures D. all of the above
14. Sin	ce 1994 the standard toilet for new construction in the U.S. does not save as much water as A. a dual-flush toilet B. a composting toilet C. an ultra low-flush toilet

7. An extensive green roof can reduce the volume of stormwater flowing into streams off

A. sloped roofs
B. residential roofs

D. all of the above

- 15. The minimal size of a toilet room in a public building is defined by
 - A. sight lines
 - B. ADA requirements
 - C. toilet stall modules
 - D. ergometrics
- 16. A vigorous municipal recycling program will
 - A. decrease local employment
 - B. divert waste from landfills
 - C. increase production of methane gas
 - D. all of the above
- 17. An example of a project whose goal is to become waste neutral through recycling and compostina is
 - A. NYC's Audobon House
 - B. the Eden Project in Cornwall
 - C. the City of Seattle
 - D. all of the above
- 18. What is sustainability?
 - A. maintaining a strong economy
 - B. retaining cultural and social artifacts and customs
 - C. ensuring that the environment continues to provide sustenance to future generations
 - D. all of the above
- 19. The SBSE checklist is superior to the LEED checklist because it
 - A. recognizes regenerative design
 - B. penalizes unsustainable design solutions
 - C. visually separates site and building issues
 - D. all of the above
- 20. London City Hall (the GLA Building) is
 - A. an example of regenerative design
 - B. totally sustainable
 - C. more sustainable than the typical London office building
 - D. a total failure that uses more energy per capita than the designers intended
- 21. In Europe
 - A. the tallest building is green
 - B. star architects practice green design
 - C. regulations mandate green practices
 - D. all of the above



22. Solar-enhanced stack ventilation towers are not prominent architectural features in A. Portcullis House in London B. Inland Revenue in Nottingham C. the Environmental Building at BRE D. all of the above feature them 23. Becoming a LEED accredited professional assures that you A. can design sustainable buildings B. understand the LEED systems C. can give good advice to clients D. all of the above 24. Energy centers throughout the western U.S. provide A. free or nominally priced consulting services in sustainable design B. training in energy-efficient strategies and systems C. daylighting model testing facilities D. all of the above 25. The best site energy generation strategy is to A. provide 10% of energy use on site B. exploit only the most readily available energy source C. use a combination of complementary energy sources D. always use the electrical grid as storage for overproduction of on-site energy 26. Mike Reynolds' earthships exemplify site-generated energy strategies in use because they A. collect rainwater and reuse grey water B. produce electricity from wind and sun C. are built of recycled materials D. all of the above 27. The most carbon neutral combustion fuel is A. bio-mass B. coal C. natural aas D. nuclear fission

28. Coal power electrical generation plants contribute to

A. global warming
B. air pollution
C. acid rain

D. all of the above

- 29. Which alternative energy source can completely fill the fossil fuel gap that will occur after world peak oil production occurs (next year?)?
 - A. solar energy
 - B. wind energy
 - C. geothermal energy
- D. all of the above and other resources including conservation
- 30. According to the Audobon Society the most birds are killed by
 - A. wind generators
 - B. trucks and automobiles
 - C. buildings
 - D. communication towers

