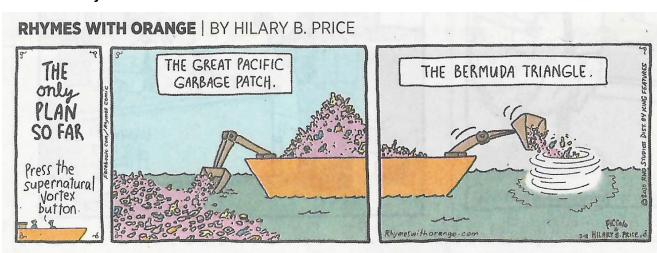
Arch 464
ECS
Midterm II Take-Home Exam
Spring 2020

Six Multiple Choice Questions that require complete essay answers. Explain (1) why the chosen answer in *italic boldface* type is correct and (2) why the others are not. Be articulate and convincing! Each question is worth 5 points, if answered correctly and completely. Due Friday, Apr 3 at 10:30 a.m..

- 3. A National Geographic Magazine writer reported his family on a daily basis uses
 - A. about twice as much potable water as other families studied
 - B. about three times as much potable water as other families studied
 - C. about four times as much potable water as other families studied
 - D. over six times as much potable water per person as other families studied
- 9. A common element in the stormwater strategies at Portland's Water Pollution Control Laboratory and Village Homes is
 - A. a neighborhood scale retention pond
 - B. swales for capturing stormwater
 - C. constructed wetlands
 - D. cisterns for each rooftop
- 14. Embodied carbon in architectural projects includes
 - A. carbon emisions from manufacturing building components
 - B. carbon sequestered in wood products
 - C. carbon emisions from occupants' trips to work
 - D. all of the above



- 18. Proactive management of construction sites can
 - A. divert no more than 50% of construction wastes from landfill
 - B. control stormwater run-off
 - C. earn no LEED and Living Building Challenge credits
 - D. none of the above

- 21. The most ecologically beneficial new building is designed to
 - A. be LEED Platinum
 - B. meet the Living Building Challenge
 - C. be regenerative
 - D. any of the above
- 30. A rationale for using both micro hydro and photovoltaics for producing on-site energy is
 - A. both require battery storage
 - B. PVs are most productive in summer—micro hydro in winter
 - C. PVs don't produce at night
 - D. all of the above





Somebody's got to do it.

Your turn Greta!