



NEW YORK CITY COLLEGE OF TECHNOLOGY

THE CITY UNIVERSITY OF NEW YORK

DEPARTMENT OF ARCHITECTURAL TECHNOLOGY

NAME: _____

3551 Final Exam F2020

Prof. Azaroff

3551 Final Vocabulary Quiz:

Answer a portion of the vocabulary in each section as listed and complete both sketches 2A and 2B. All answers shall be HAND written. Once complete the pages shall be scanned and photographed then emailed in by the end of class on May 21st, 2020

Section 1 Vocabulary Answer ALL of the following eleven questions

TROMBE WALL

RECYCLED WATER

BIOSOLIDS

DRAINAGE SWALE

COMBINED STORM WATER OVERFLOW EVENT (CSO)

RAMMED EARTH

GRAY WATER

BLACK WATER

GROUND WATER

CO-GENERATION

AQUIFER

PART 2A: Answer the following questions in complete sentences. Sketch your answer in a diagram with explanation.

Provide and illustrate two methods by which Architects can control the **quantity and quality** of water that exits a building or site before it joins the municipal sewer system? Describe each in **YOUR OWN WORDS!!!**

Section 2

3551 Final Vocabulary Quiz: Answer **ALL** of the following nine definitions.

MACROCLIMATE

MICROCLIMATE

MESOCLIMATE

SIRR

DRY BULB TEMPERATURE

RESILIENT

RELATIVE HUMIDITY

DEGREE DAYS (HEATING & COOLING)

BIOCLIMATIC CHART

PART 2B: Answer the following questions in **words and Sketch format**.

Sketch 2 examples of Atria and the advantages or qualities they bring to a project. Be specific in your description and use graphics such as arrows to show how the Atria work.

Section 3

3551 Final Vocabulary Quiz: Answer ALL of the vocabulary in section 3

1. LEED
2. Frankenstein products
3. Renewable Resource vs Non-Renewable Resource
4. Circular economy
5. Passive Solar Systems
6. Active solar Systems
7. Carbon Emissions
8. GHG
9. Superfund Site
10. Brownfield
11. Urban Infill
12. Ecological Footprint

13. Define Lux and Lumens

14. Building Commissioning

15. R Value / U Value

16. I.C.F. 's

17. Heat Island Effect

18. Low ' E'

19. Fritted Glazing

20. S.I.P's

21. SRI

22. upcycle

23. Energy Audit

24. Solar Heat

25. Geothermal Heat-Pumps

26. Building Management Systems

27. Commissioning

28. Eco Efficient

29. Renewable Energy - Distributed Generation

30. Direct solar gain systems list 2 advantages

31. Direct solar gain systems list 2 dis-advantages

32. Indirect solar gain systems list 2 advantages

33. Indirect solar gain systems list 2 disadvantages

34. Eco Effective

35. DFE

36. BFE

37. Freeboard

38. What does the cherry tree represent in our readings?

39. Who was Rachel Carson and name two OF her contributions

40. Who was Ian McCarg and name one of his major contributions

41. What does 80 x 50 stand for?

42. Biomass

43. What is the significance of the cherry tree?

3A. Sketch the following (Extra Credit)

Sketch or diagram a **Passive Hot Water** heating system and an **Active Hot Water** heating system. Describe in your own words the way in each system works in detail. How does the system heat water? How does the system maintain heated water?