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**GEOG 306**

Discussion questions chapter 7

1. Describe some general characteristics of the Megalopolis and describe 3 of its major cities.

**Defined by**

**– Population**

**– Urban centers**

**– economy**

**Boston, MA**

**• Econ. capital of New England**

**• Harvard, MIT … a technopole technopole**

**• Electronics., pharma, Electronics., pharma, Electronics., pharma, aeronautic industries**

**• Also insurance, publishers**

**• Big Dig**

**• Energy and water savings.**

**Chesapeake Bay, MD**

**• 64,000 square miles**

**• 16 Million people**

**• Delmarva Peninsula**

**• Runoff from city streets, inorganic nutrients Runoff from city streets, inorganic nutrients Runoff from city streets, chicken farmlands, outflows sewage treatment, chicken manure**

**• Excess algae growth blocks sunlight**

**• Hampering grass growth-blue craps and oysters**

**• Depletes DO in water.**

**New York City, NY**

**• 8.5mill. (2016), high density, green**

**• Premier position, major port**

**• Extensive waterfront**

**• Largest stock exchanges, a global city**

**• Waste/NIMBYism, but good water**

1. Identify on a map the five boroughs of New York City and identify characteristics of each.

* **Manhattan – Core city of New York, has most skyscrapers in the nation. Wall Street, also known as the media capital of the world. 40% of office space.**
* **Queens – Residential borough. 50% immigrants living there. Diverse county of the nation.**
* **The Bronx – residential land and commercial interests to service communities. 30% of population there lives below poverty line. About 50% of Hispanic. Drug and poverty is prevalent.**
* **Brooklyn – Culturally distinct borough, Jewish, Italian, Pakitani, and Russian immigrant population.**
* **Staten Island – Suburban area, fastest growing population. Has the Fresh Kills Landfill, used to be the biggest landfill of the world.**

1. What role has hydropower played in Megalopolis’s past, and what role will it play in its future?

**~It will help the times of crisis such as blackout if it would happen to Megalopolis. Another role would be use of hydropower can be an alternative form of power.**

1. What are some of the green ways that Megalopolis has led the nation?

**~ Sustainable applications such as hydropower dams on times of crisis. Creating an example to nation such as creating urban centers that does conservations, energy sufficiency. Infrastructure updates such as environmentally conscious buildings.**

**Water sources, hydropower, technology\, invest greener programs, policies. Today some solutions: Transit-Oriented Developments (TODs)**

**e.g**

**New York City –Set standards for rest of nation.**

1. Discuss the environmental problems of the Chesapeake Bay.

**~ Because of population growth, Chesapeake Bay used to have the healthiest estuary, now it is polluted and there is less marine life on the estuary now. This resulted of high levels of pollution runoffs.**

1. How did Merrimack Valley industry evolve initially, and how has it changed since the 1970s?

**~Merrimack valley used to be an area that does worsted wool mills such as ten cotton and woolen textiles, it expanded all over poursmouth, Portland, to New Hampshire. Today now they follow a motto called “innovation valley” concentrating on technology and greener developments. Mills became retails, lofts, and now on hydropower, dams, and water turbine.**

1. What are some unintended consequences of draining estuaries?

**Unintended consequences**

**–Provide habitats for aquatic and bird species**

**–Act as flood control-sponges-**

**–Protect from storms**

**–Both of which are on the rise-climate change –Makes coastal areas vulnerable.**