

## Chapter 22 Questions

### Cities and Sustainability

*All answers must be HANDWRITTEN and use COMPLETE SENTENCES with AP level answers.*

1. Make a chart illustrating how Curitiba, Brazil handles each of the following and why this is an ecocity concept: transportation, flood prone areas, green spaces, zoning, waste, poverty, pollution.

2. What are the 4 major trends in urbanization? Give statistics to back each trend.

3. Look at the Google Earth time lapse of Las Vegas, Nevada at

<http://earthengine.google.org/#intro/LasVegas>

Explain how this time lapse illustrates the four major trends in urban growth in the US and urban sprawl. What factors would have promoted this growth? What consequences this would have on the surrounding environment?

4. Make a Venn diagram with three circles entitled: economic, environmental, and social.

Make a key with one color for advantage and one for disadvantage. In each circle indicate the advantages and disadvantages of urbanization.

5. Using Mexico City as an example, explain in detail the problems encountered in cities in less developed areas. What are potential solutions for those problems?

6. Distinguish between dispersed and compact cities. Include: definition, advantages and disadvantages, examples.

7. Make a table comparing the different modes of transportation. Include: cars, zipcars, bicycles, mass transit rail (heavy and light rail), buses, and rapid rail. For each mode of transport, make a column for the advantages, a column for disadvantages, where they are used, and how they are encouraged / discouraged.

8. What is the purpose of land use planning? What are the positives and negatives of zoning? How does reliance on property taxes affect zoning?

9. What is smart growth? Explain how the six major tools of smart growth were used in Portland, Oregon.

10. Explain how urban growth boundaries, greenbelts, and parks can be used to preserve open space.

11. Explain how the 6 principles of new urbanism were incorporated into Vauban.

12. What are the 8 principles of an ecocity? Explain how you would incorporate these into a planned city in your town.

13. How is an ecocity different from an ecovillage? Explain by contrasting Curitiba and BedZed in London. How do they both promote sustainability?

14. What are the principles in designing a living building and how were they applied at OCSL?

