**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Managing Earth’s Changes Study Guide – Test Wednesday December 19th**

1. Technology for controlling floods offers both **benefits and drawbacks**. Changing the flow of water can prevent flooding in some areas, but cause erosion in others. It protects some habitats, but destroys others.

2. Pipes or channels that carry storm water away from streets to keep cities from flooding are called **storm drains**.

3. A wall along the banks of a river (either created by the river naturally or man-made) designed to stop flooding is called a **levee**.

4. A **dam** is a wall that is built across a river so that water collects and forms a lake behind it. Dams prevent flooding by **controlling the flow of the river water**.

5. River water collects behind a dam to form a **reservoir**, which helps prevent floods and allows for a steady water supply all year long.

6. **Seismology** is the scientific study of all aspects (areas) of earthquakes.

7. The greatest losses of life and property that occur during an earthquake are the result of **buildings collapsing** because of the violent shaking of the ground.

8. Seismological studies help engineers make decisions about the design and modifications of **earthquake-resistant** building materials.

9. **Flood maps** are created using elevation data and computer programs to show areas that are likely to be flooded, how deep the water may get, when the floodwater will likely first arrive, and when the flood will crest.

10. All of these things helped to cause the Dust Bowl of the 1930s.

**\* planting crops in long, straight rows**

**\* plowing unhealthy soil quickly using tractors**

**\* weeks without rain (a drought) and strong winds**

11. Farm crops depend on healthy topsoil. Wise practices and techniques can prevent soil from eroding. When farmers plant curved rows of crops that follow the shape of the land it is called **contour plowing**. This helps to stop topsoil from being lost because of erosion.

12. Since flowing water and gravity cause erosion on **hillsides**, farmers practice terrace farming. **Terrace farming** is where crops are planted on parts of the hill that have been leveled or flattened. This keeps the **soil from being washed away** before the plants get a chance to grow.

13. **Flood maps** help citizens who live in an area that is likely to flood by showing them information about the flood (which areas, how deep, what time etc.) so citizens can evacuate.