

**Civil Engineering Academy**  
**The Ultimate Floodplain Manager Review Course**  
**Review Questions**

**Unit 1 Review Problems**

1. What are the three most common types of flooding?
  - a. riverine, coastal, and shallow flooding
  - b. urban, flash, and coastal flooding
  - c. flash, urban, and riverine flooding
  - d. coastal, urban, and shallow flooding
2. Which type of flooding has accounted for the most flood-related deaths in recent history?
  - a. riverine flooding
  - b. coastal flooding
  - c. flash flooding
  - d. urban flooding
3. What is a "meander" in the context of river channels?
  - a. a straight section of river
  - b. a curve or bend in a river channel
  - c. a river delta
  - d. a riverbank
4. What is the major cause of coastal flooding
  - a. heavy rainfall
  - b. storm surge
  - c. snowmelt
  - d. dam failure
5. What causes a tsunami?
  - a. underwater earthquakes or volcanic eruptions
  - b. hurricanes
  - c. tidal changes
  - d. heavy rainfall
6. What are the two problems that result from floodplain development?
  - a. increased property values and reduced natural habitats
  - b. altered floodplain dynamics and damage to buildings/infrastructure
  - c. improved drainage and increased recreational areas
  - d. decreased flood frequency and enhanced water quality

7. What effect does watershed development have on flooding?
  - a. decreases flooding
  - b. has no effect on flooding
  - c. increases flooding
  - d. prevents flooding
  
8. Standing water as little as how many feet deep can collapse the walls of a frame house?
  - a. 1 foot
  - b. 2 feet
  - c. 3 feet
  - d. 4 feet
  
9. What are some of the safety and health hazards that accompany floods?
  - a. disruption of public utilities
  - b. contamination of water supplies
  - c. mold and mildew growth
  - d. All of the above
  
10. What are the two primary goals of floodplain management?
  - a. increase property development and reduce taxes
  - b. reduce loss of life and property and protect natural floodplain functions
  - c. promote tourism and enhance recreational facilities
  - d. expand urban areas and improve infrastructure

## Unit 1 Review Questions Solutions

1. What are the three most common types of flooding?
  - a. riverine, coastal, and shallow flooding (FEMA 480 Page 1-5)
  - b. urban, flash, and coastal flooding
  - c. flash, urban, and riverine flooding
  - d. coastal, urban, and shallow flooding
2. Which type of flooding has accounted for the most flood-related deaths in recent history?
  - a. riverine flooding
  - b. coastal flooding
  - c. flash flooding (FEMA 480 Page 1-8)
  - d. urban flooding
3. What is a "meander" in the context of river channels?
  - a. a straight section of river
  - b. a curve or bend in a river channel (FEMA 480 Page 1-8)
  - c. a river delta
  - d. a riverbank
4. What is the major cause of coastal flooding?
  - a. heavy rainfall
  - b. storm surge (FEMA 480 Page 1-10)
  - c. snowmelt
  - d. dam failure
5. What causes a tsunami?
  - a. underwater earthquakes or volcanic activity (FEMA 480 Page 1-10)
  - b. hurricanes
  - c. tidal changes
  - d. heavy rainfall
6. What are the two problems that result from floodplain development?
  - a. increased property values and reduced natural habitats
  - b. altered floodplain dynamics and damage to buildings/infrastructure (FEMA 480 Page 1-19)
  - c. improved drainage and increased recreational areas
  - d. decreased flood frequency and enhanced water quality
7. What effect does watershed development have on flooding?
  - a. decreases flooding
  - b. has no effect on flooding
  - c. increases flooding (FEMA 480 Page 1-20)
  - d. prevents flooding

8. Standing water as little as how many feet deep can collapse the walls of a frame house?
- a. 1 foot
  - b. 2 feet
  - c. 3 feet (FEMA 480 Page 1-25)
  - d. 4 feet
9. What are some of the safety and health hazards that accompany floods?
- a. disruption of public utilities
  - b. contamination of water supplies
  - c. mold and mildew growth
  - d. All of the above (FEMA 480 Page 1-27)
10. What are the two primary goals of floodplain management?
- a. increase property development and reduce taxes
  - b. reduce loss of life and property and protect natural floodplain functions (FEMA 480 Page 1-29)
  - c. promote tourism and enhance recreational facilities
  - d. expand urban areas and improve infrastructure