

***** EXAMINATION *****

STANDARD PROJECT FLOOD DETERMINATION

1. **The standard project storm estimate is:**
 - a) made for a particular drainage area
 - b) made for a particular season of the year
 - c) should not be made when snow is a major consideration
 - d) All of the above

2. **The standard project flood estimate resulting from snow is based on:**
 - a) the most critical combinations of snow and temperature
 - b) the most critical combinations of elevation and snow
 - c) the most critical combinations of elevation and temperature
 - d) None of the above

3. **Region refers to an area**
 - a) surrounding the given basin which storm factors are the same
 - b) such as a state having the same topography
 - c) area such as a county having the same topography
 - d) area such as a city having the same topography

4. **The type of storm used to select rainfall criteria is:**
 - a) the normal storm
 - b) the most severe storm
 - c) the most extraordinary severe storm
 - d) None of the above

5. **The statistical probability of a standard project flood occurrence:**
 - a) varies with the size of the drainage area
 - b) varies according to hydrometeorological factors
 - c) may not be feasible to assign because of choices 'a' and 'b'
 - d) All of the above

6. **Studies of unusual storms are limited to:**
 - a) 24 hours or less
 - b) 60 hours or less
 - c) 120 hours or less
 - d) 240 hours or less

7. **Flood magnitudes are governed by factors such as:**
- a) infiltration capacity of the soil
 - b) natural and artificial storage effects
 - c) quantity, intensity, and sequence of precipitation
 - d) All of the above
8. **A basic class of flood estimate is:**
- a) Maximum probable flood estimate
 - b) Statistical analyses of Stream Flow Records
 - c) Standard Project Flood Estimates
 - d) All of the above
9. **Design flood refers to:**
- a) the final peak discharge value
 - b) the lowest peak discharge value
 - c) the average value during a flood
 - d) None of the above
10. **The design factor of flood control projects is:**
- a) the same as the maximum probable flood limit
 - b) usually lower than the maximum probable flood limit
 - c) twice the maximum probable flood limit
 - d) None of the above
11. **The design flood elevation may be:**
- a) greater than the standard project flood
 - b) less than the standard project flood
 - c) determined using economics as a factor
 - d) determined by a combination of the above factors
12. **The maximum possible precipitation in 24 hours for southern**
- a) Louisiana is 24 inches
 - b) Louisiana is 26 inches
 - c) Louisiana is 29 inches
 - d) Louisiana is 33 inches
13. **The maximum possible precipitation in 24 hours for central**
- a) Virginia is 24 inches
 - b) Virginia is 26 inches
 - c) Virginia is 29 inches
 - d) Virginia is 33 inches
14. **The maximum possible precipitation in 24 hours for southern**
- a) Missouri is 24 inches
 - b) Missouri is 26 inches
 - c) Missouri is 29 inches
 - d) Missouri is 33 inches

15. **An economic factor affecting the design of maximum probable**

- a) flood is accumulation of ice
- b) flood is poor infiltration
- c) flood is acquisition of right-of-way
- d) None of the above

16. **The term design flood is equivalent to:**

- a) project design flood
- b) maximum probable flood
- c) high-water flood
- d) 500-year flood

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