

## **Module 206B Peak Discharge (Graphical Method, TR-SS) Questions**

### **Activity 1**

1. When can the graphical peak discharge method be used?
2. What are the six input requirements in the Graphical Peak Discharge Method?
  - a. Drainage area
  - b. Runoff curve number
  - c.  $T_c$
  - d. Rainfall distribution type
  - e. 24-hour rainfall for the desired frequency
  - f.  $F_p$ , pond and swamp adjustment factor, if appropriate

*(Refer to page 6 in Module 206B for Activity 1 Solutions)*

## Activity 2

Given:

Project = Joe's Problem

Drainage Area = 0.6 mi<sup>2</sup>

Location = NW comer of Alabama

CN = 80

T<sub>c</sub>=1.8 hr

Rainfall Distribution = II

P50 = 7.0 in

Find:

The 50-year peak discharge using Worksheet 4 in Module 206B.

Solution: *(Refer to page 14 in Module 206B for Activity 2 Solution; refer Appendix A for all Figures and Charts)*

### Activity 3

Given:

Project Name = Don's Farm

Drainage Area = 1.0 mi<sup>2</sup>

Location = Calvert County, MD

CN = 85

T<sub>c</sub> = 1.0 hr

Rainfall Distribution = II

P50 = 6.7 in

Find:

The 100-year peak discharge using Worksheet 4 in Module 206B. Assume 5% of the area is swampy, and the swampy areas are not along the flow path.

Solution: *(Refer to page 18 in Module 206B for Activity 3 Solution; refer Appendix A for all Figures and Charts)*