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. Tc
   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 mi²

Location = NW corner of Alabama

CN = 80

Tᵣ=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 mi²

Location = Calvert County, MD

CN = 85

T_c = 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)