







Meteorology - Flash floods


Name: _____


1.  Flash flooding is more likely to occur when precipitating systems: Choose all that apply.
- Select 3 answers
- A are convective in nature
 - B are rapidly moving and isolated
 - C pass over basins with enhanced runoff potential
 - D propagate such that their duration is increased in some areas


2.  Precipitation of the same intensity, duration and areal coverage will produce the same amount of surface runoff regardless of where it occurs. Choose the best answer.
- A True B False
-  

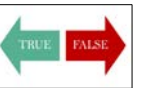


3.  Which of the following values are used with "rainfall versus runoff curves" to derive flash flood guidance? Choose the best answer.
- A rainfall rate
 - B soil infiltration rate
 - C threshold runoff
 - D headwater guidance


4.  Assume that a precipitating cloud remains stationary over basin A and produces rain that falls at a rate of 30 mm h⁻¹ for 15 minutes, then produces no precipitation for 15 minutes, and then repeats that pattern over the course of two hours. How much precipitation would fall on basin A in those two hours? (Choose the best answer)
- A 7.5 mm C 30 mm
B 15 mm D 60 mm


5.  Assume that another precipitating cloud remains stationary over adjacent basin B and produces rain that falls at a rate of 15 mm h⁻¹ continuously for 2 hours. How much precipitation would fall on basin B in those two hours? (Choose the best answer)
- A 7.5 mm C 30 mm
B 15 mm D 60 mm

6.  Based on the rainfall situations outlined in questions 1 and 2, what can we say about the occurrence of flash flooding in those basins?
- A Flash flooding will occur in basin A
 - B Flash flooding will occur in basin B
 - C There is not enough information to determine whether flash flooding will occur in those basins

7.  Precipitation generated from dynamic lifting and not convective lifting will fall from a _____ clouds.
- A Nimbostratus C Stratus
B Cumulonimbus D Cirrus

8.  Most flash flood events are produced by deep, moist convection. True or False?
- A True B False
-  

9.  Single cell thunderstorms are generally relatively weak and their life span is ___ minutes.
- A 5 B 30 C 300

10.  Convection can be classified into (choose all that apply):
- Select 4 answers
- A single-cell
 - B multicell
 - C supercell
 - D squall line structures