RiverWeb Test Rubric

Question #1: (5 points)

Acceptable answers (1 point each – total of 5 points possible)
-Runoff
-Famland/fertilizer
-Houses/residential/fertilizer OR "people that live by where the river flows"
-Sewer/sewage
-Sense of nutrients being washed down into the river from somewhere else in the watershed.

Unacceptable answers
-From rain
-From the bottom of the water
-From animals living in the water or forest
-From drainpipe

Question #2: (6 points)

-Importance of trees as a stream buffer to protect against
        -runoff (1 pt.)
        -sedimentation (1 pt.)
        -flooding (1 pt.)
        -shade/temperature (of water???? Or land??) (1 pt.)
-Type of damage that could result
        -oils, toxins, other sediments- source must be correct (up to 2 pts.)

Question #3: (6 points)

-3 indicators: sediments, heavy metals, toxins (1 pt. each = 3 pts total)
-Giving correct source of one or more indicators (1pt.)
-Explaining why (runoff) (1pt.)
-Sense of "over time" or "over the years" (1 pt.)

Question #4: (6 points)

A) No (1 pt.)
B) Yes (1 pt.)
C) If the shape is described - "up down" inconsistency = 1 pt.
      If further explanation about the connection between shape and season
      is given (i.e. in summer the D.O. or graph is lower) = 1 pt.

D) If mere seasonal events such as heat, cold, rain, snow mentioned = 1pt.
      If more description or explanation of why this might cause seasonal
      variation = 1 pt.

Question #5 (9 points)

A)   PF = S- (1 pt.; ½ pt for S only or - only)
      Sub = S+ (")
      RM = W+ (")
  - Explaining in words the relationship between N and S (1 pt. for each
    land use, up to 3 points)

B)   Explanation of each land use and why diff. N-S relationship (1 pt. for
    each land use.)

Question #6 (8 points)

A) Similarities: (up to 2 pts.)
  - Both strong (1 pt.)
  - Both + (1 pt.)
  - X-axis scale is the same (1 pt.)
  - Both are measuring runoff and precip. (1 pt.)

B) Differences: (up to 2 pts.)
- Runoff in PF begins later with precip than in urban (1 pt.)
- The numbers on axes are different (1 pt.)
- Two different areas (1 pt.)
- "One goes up faster than the other" (1 pt.)

C) "As precipitation increases, runoff increases" (2 points)
D)
- Describe why PF has less runoff (trees) (1 pt.)
- Describe why urban area has more runoff (no trees, parking lots, etc.) (1 pt.)