Agriculture Machinery

Hay Accumulator
(3 pts each)

1. What is the weight of this accumulator? _____________

2. Feed chain tension should be adjusted so that the chain sags:
   a. 2 inches below level
   b. 4 inches below level
   c. 3 inches below level
   d. doesn't need to be adjusted

3. Push bar front and rear pivots should be greased every:
   a. 50 hours
   b. 100 hours
   c. 2000 bales
   d. 5000 bales

4. What happens when the rubber cords are missing on the throat?
   a. Bales get cut in half by push bar
   b. Push arm does not extend
   c. Bales get caught in throat when turning
   d. Feed conveyor doesn't rotate

5. What are the maximum dimensions of a bale acceptable for this machine?
   ___________ x ___________ x ___________

6. What is the part tagged #6?
   a. Dump Bar
   b. Push Arm
   c. Tie Bar
   d. Solid Roller Arm

7. What is the part tagged #7?
   a. Electric Clutch
   b. Dump Stop Switch
   c. Pressure Switch
   d. Hydraulic Valve
8. What is the part tagged #8?
   a. Control Chain
   b. Idler Chain
   c. Feed Chain
   d. Drive Chain

9. Which wire would you disconnect to disable the tie feature on the baler? (Tagged #9)
   a. black
   b. blue
   c. green
   d. yellow

**Patriot Sprayer – SPX 3185**

10. What is the part tagged #10?
    a. Vane Axial Spray Solution Pump
    b. Diaphragm Spray Solution Pump
    c. Piston Spray Solution Pump
    d. Centrifugal Spray Solution Pump

11. What is the part tagged #11?
    a. Hand Wash Station
    b. Hydraulic Reservoir
    c. Solution Tank
    d. Tool Box

12. What is the part tagged #12?
    a. Foam Marker Tank
    b. Spray Tank
    c. Chemical Tank
    d. Clean Water Tank

13. What is the part tagged #13?
    a. Differential Lock
    b. Dimmer Switch
    c. Boom Switch
    d. Four Wheel Drive Switch

14. On the Case Patriot we are using spray tip #14. What is the gallons per minute (GPM) of
    this nozzle at 40 psi? (5 pts) *(Show your work for partial credit.)*

_______________________ GPM
15. In front of you is a sprayer calibration jug with a sample from the Case Patriot. We are still using tip #14 and the spray pressure is still at 40 psi. The sample was taken over a 30 second interval. Is this tip putting out the correct flow rate? (5 pts) 128 ounces = 1 gallon (Show your work for partial credit.)

16. If the recommended application rate is 15 gallons per acre (GPA), the sprayer is traveling at 8 mph, and tip spacing is 20 inches, what is the calculated required nozzle output in gallons per minute (GPM)? Please use tip #14 again for this calculation. (5pts) (Show your work for partial credit.)

_____________________GPM