Agricultural Machinery
50 Points

Directions: Please circle the appropriate answer or fill in the blank for each question. When you are finished please turn your sheet in. Remember to put your name, contestant number and chapter on your paper. Not doing so will result in a zero for this section. If you have questions please feel free to ask.

Case 440 Skid-Loader
2 Points Each

1. What is the shipping weight of this machine? __________________

2. What is the Product Identification Number (P.I.N.) of this machine? __________________

3. What is the flow rate of the auxiliary hydraulic circuit?
   a. 77.9 gpm
   b. 20.6 gpm
   c. 13.4 gpm
   d. 35.5 gpm

4. How often should the fuel filters be replaced in normal conditions?
   a. 100 hrs
   b. 250 hrs
   c. Annually
   d. None of the above are correct

5. What is the net engine power (hp)?
   a. 67 hp
   b. 63 hp
   c. 90 hp
   d. 83 hp
Matching  
2 Points Each

6. ______
   a. Auxiliary Hydraulic Hose Couplers
   b. Counter Weight

7. ______
   c. Electric Hydraulic Control
   d. First Hydraulic Cooler

8. ______
   e. Foot Hydraulic Control
   f. Foot Throttle

9. ______
   g. Lift Arm Hydraulic Bypass Control
   h. Push Button 2 Speed

10. ______
    i. Radiator
    j. Second Hydraulic Cooler

Landpride Plainsman RCR 3515  
2 Points Each

11. What is the Product Identification Number (P.I.N.) of this machine?
   __________________

12. The horse power rating for this machine should be between:_____?
    a. 50 – 160
    b. 20 – 100
    c. 160 – 200
    d. 40 – 220

13. When operating this machine, the tractor drawbar should be set between ___ “ & ___” from
ground level to top of draw bar?
    a. 10”-14”
    b. 16”-18”
    c. 18”-21”
    d. 14”-24”

14. What type of oil should be used is the divider box shown in image 1.1??
    a. 80-90W
    b. EP90
    c. 15W-40
    d. None of the above

15. What size of hitch pin is required to pull this machine?
    a. ¾“
    b. ⅞“
    c. 1“
    d. 1 ¼“
Matching
2 Points Each

16. ______
    a. Wing Leveling Turnbuckle
    b. Leveling Rob
17. ______
    c. Blade Carrier
    d. Divider Box
18. ______
    e. Gear Box
    f. Connecting PTO Shaft
19. ______
    g. Wing Lock
    h. Blade Depth Control
20. ______
    i. Selector Valve Control
    j. Secondary Slip Clutch

For questions 21 – 23 describe the purpose/use for each item. (2pt)

21. Identify and describe item #21.

22. Identify and describe item #22.

23. Identify and describe item #23.

24. How many acres of land can you mow with the rotary mower in 10 hours operating 6.5 mph at 85% efficiency? (round to the nearest acre) (4pts)