FUEL SYSTEM

1. Total fuel system capacity is \_\_\_\_\_\_ with \_\_\_\_\_\_ usable fuel.

2. How is fuel transferred from the wing tanks to the center section tank?

3. How is fuel transferred to the nacelle tank?

4. Explain the operation of the nacelle float switches.

5. Explain the operation of the transfer pump in the override position.

6. With a failed transfer pump, how does fuel get to the nacelle tank?

7. With a transfer pump failure, how is our usable fuel quantity affected?

8. How many fuel drains are there on the aircraft?

9. What type of fuel gauging system is utilized in the T-44?

10. What is the difference between the left and the right fuel system?

11. What is the minimum amount of fuel required in the nacelle tank to obtain a good test of the transfer pump?

12. How much pressure does it take to activate the FUEL PRESSURE light?

13. What is the rated pressure of the transfer pumps?

14. What are the indications of a boost pump failure?

15. What is the time limit for an engine driven fuel pump operating on suction lift?

16. What is the time limit for an engine running on AVGAS?

17. Why is the crossfeed valve not left open with both boost pumps operating?

18. If the crossfeed valve loses electrical power, will it remain open?

19. Why is the firewall valve not used to secure an engine?

20. Max fuel split in total is \_\_\_\_ lbs and in nacelle is \_\_\_\_ lbs.

21. What is the purpose of the fuel vents?

22. With a failure of either fuel bus, will the boost pump still work for that respective side? How?

23. The LH and RH NO FUEL TRANSFER lights are powered by \_\_\_\_\_\_\_. If this fails, the respective transfer pump will cease to operate and the associated annunciator light will not illuminate.

24. Explain how fuel travels from the outboard tank to the engine.

FUEL SYSTEM EMERGENCIES

1. What are the procedures for a NO FUEL TRANSFER light?

2. What indications will you receive for a failed boost pump?

3. How will our performance be affected by a failed boost pump?

4. When should suction lifting be discontinued in favor of crossfeed during flight?

5. What are the procedures for an engine driven fuel pump failure?

6. What are the procedures for a fuel leak?

7. What are the procedures for fuel siphoning?

8. What is the difference between a fuel leak and fuel siphoning?