PILOT_____ INSTRUCTOR____ DATE_____

Cessna 182P Quiz **Tail: N58628** **01-12-2024**

1. Max Normal Category Takeoff Gross Weight? _____

   How is this permissible? _____

   Empty weight. _____ Normal category Useful Load _____ Dated _____

   Max Ramp weight? _____

2. What is the maximum landing weigh? _____

3. At max gross takeoff weight, approximately how long would you have to fly before landing to be under the Max Landing Weight? _____

4. Maximum baggage load "A"_____, "B"_____.

5. Engine manufacturer _____, _____.

6. Is there an STC associated with this engine? _____

7. Propeller type _____.

8. Fuel capacity of N58628. _____, usable fuel _____. Number of fuel tanks? ___.

9. How many fuel caps are there and what provision do you have to make to get full fuel in the tanks?

   _____.

10. How many fuel system drains are there? _____, where are they located? _____.

11. Tire pressures are. _____ for the nose tire and. _____ for the main tires?

12. What are the values for the following (indicated) airspeeds at a gross weight of 2950?

    At 3100 lbs? 2950 lbs 3100 lbs all speeds in MPH.

Vso	_____	_____
Vs1	_____	_____
Vr	_____	_____
Vx F20	_____	_____
Vx F up	_____	_____
Vy	_____	_____
Vg	_____	_____
Vfe/10	_____	_____
Vfe/<10	_____	_____
Va	_____	_____
Vno	_____	_____
Vne	_____	_____

2550 lbs _____ 2000 lbs _____

13. What is the oil capacity _____

    a. Minimum oil level for short duration flights_____

    b. Normal oil level for flights less than 3 hours_____

    c. Oil capacity for extended flights_____

    d. For local flights oil would not be added above_____?

14. What are the approved fuel grades / colors? _____/_____, _____/_____

15. Under what category is this airplane certified? _____

16. What maneuvering limits are imposed on this airplane? _____

    _____

17. What concerns override noise abatement procedures? _____ and _____

18. What steps are used to comply with noise abatement with this aircraft? _____

19. In N58628, on approach for landing, the pilot should not increase the propeller to full until power has been reduced to a maximum of how many inches Hg? _____

20. Electrical energy is provided by a _____ volt, direct current system powered by an engine driven ____amp alternator. What is the battery voltage and amp-hour rating? _____

21. During engine starting and shut-down procedures, what action should be taken regarding the avionics?

    _____

22. What steps should be taken if the electrical system malfunctions and the over voltage light illuminates?_____

23. What is the function of the small red switch on the bottom left of the instrument panel?

    _____

24. During normal operation in cruise flight, should the fuel tank indicator suddenly register empty, what other instruments should be checked in order to determine if there is a zero fuel problem or an electrical problem?_____

25. During cruise flight, the cowl flaps should be_____. This position may be altered as a function of what instrument reading?_____

26. N58628 is Carb Ice prone with the extra airflow through the larger cylinders. When should Carb Heat be applied? _____

27. The electrical trim switch has a protective device to prevent trim runaway. Where is this device located? _____ What is the pre-flight check to assure that this devise is functioning properly?_____

28. If an engine failure occurs immediately after take-off what is the best airspeed to achieve with flaps up?_____. With flaps down?_____.

29. What is the desired precautionary landing speed with engine power?_____

30. What are the desired speeds for landing without engine power with flaps up?_____. With the flaps down?_____.

31. What is the full fuel CG location for you and your usual right seat passenger?_____.

32. What airplane handling characteristics should you expect with a forward CG?

_____

33. Determine the take-off distance and landing distance for the following conditions: Full fuel and maximum gross weight. Take-off conditions – runway 13, field PA 2000 feet, temperature 85F, wind 120/10, grass surface. Landing conditions – runway 25, field PA 1000 feet, temperature 70F, wind 240/20 grass surface. Find the ground roll_____and total take-off distance over a 50-foot obstacle_____.
Find the landing distance over a 50-foot obstacle_____, and the ground roll_____.

34. What would be the ground roll_____and takeoff distance over a fifty-foot obstacle on runway 07, same conditions?_____. .

35. In a fuel critical situation, what is the best altitude (approximately), standard temperature day, for the best range?_____. What is the MP/RPM/KTAS for the best range_____/_____/_____ which equals what % BHP?_____. (Consider the fact that if a climb is necessary to reach optimum altitude, more fuel will be consumed and the altitude advantage will be lost). What is the best altitude for best endurance? _____.

36. For a minimum of one hour of usable fuel in the tanks upon landing, how do you determine the number of gallons this represents?_____.What is your estimate of one hour of usable fuel? _____.

37. To act as PIC in N58628, a BEFA member must complete a checkride with a BEFA CFI or have_____hours and_____landings within_____days in C182 aircraft.

38. How much ballast is normally carried in the baggage compartment? _____ Why is it there? _____.

    a. Where is the Utility light switch located?_____.

    b. Where is the yoke light switch located?_____.

Please complete the GNS 430W supplement.