

## CHEROKEE ARROW PA-28R-200 KNOWLEDGE EXAM

1. If there is any inconsistency between the Pilot Operating Handbook (POH) and the Airplane Flight Manual (AFM) the \_\_\_\_\_ shall govern.
2. The Arrow's dimensions are as follows: \_\_\_\_\_ wing span (ft), \_\_\_\_\_ in length (ft) and \_\_\_\_\_ in height (ft).
3. The propeller is a \_\_\_\_\_ - \_\_\_\_\_, \_\_\_\_\_ - \_\_\_\_\_ unit with the control located on the control quadrant between the throttle & mixture controls.
4. An alternate induction air system contains a door that is operated automatically and/or manually and will open automatically if the primary air source is obstructed. (T or F)
5. The Arrow is equipped with a retractable tricycle landing gear which is \_\_\_\_\_ actuated by an \_\_\_\_\_ powered reversible pump.
6. The landing gear is retracted or extended in about \_\_\_\_\_ seconds.
7. The amount of flap used during landings and the speed of the aircraft at contact with the runway should be varied according to what three factors? (1) \_\_\_\_\_ (2) \_\_\_\_\_ (3) \_\_\_\_\_
8. In order to keep the airplane in best lateral trim during cruise flight, fuel should be alternately used from each tank. (T or F)
9. To INCREASE power, first increase manifold pressure, then increase RPM (T or F)
10. Flaps may be lowered at airspeeds up to \_\_\_\_\_ MPH. To reduce flap \_\_\_\_\_, it is desirable to have the airplane at a slower speed before extending the flaps.
11. If the vacuum gage does not register 5" Hg. +/- .10 Hg at 2000 RPM the following items should be checked.  
a. \_\_\_\_\_, b. \_\_\_\_\_,  
c. \_\_\_\_\_, d. \_\_\_\_\_
12. The \_\_\_\_\_ pump should be turned \_\_\_\_\_ momentarily during ground check to make sure the \_\_\_\_\_ pump is \_\_\_\_\_.
13. In cold weather the prop control should be \_\_\_\_\_ at least \_\_\_\_\_ times to ensure that \_\_\_\_\_ engine \_\_\_\_\_ has circulated through the system.
14. The nose gear is steerable through a \_\_\_\_\_ degree arc through the uses of \_\_\_\_\_.  
As the nose gear retracts, the steering linkage \_\_\_\_\_ to \_\_\_\_\_ rudder pedal loads in flight.
15. The words "master switch" refers to both the "BAT" and "ALT" sides of the switch being turned off or on simultaneously as directed. (T or F)
16. The toe brakes and hand brake all have individual \_\_\_\_\_, but share a common \_\_\_\_\_.
17. The Arrow has \_\_\_\_\_ fuel tanks, each with a \_\_\_\_\_ gallon capacity. Total useable fuel is \_\_\_\_\_ gallons. (TCDS)
18. Primary electrical power is provided by a \_\_\_\_\_ volt, \_\_\_\_\_ amp \_\_\_\_\_.
19. Avoid continuous operation between 2000 – 2350 RPM (T or F)
20. Avoid prolonged idling at low RPM as this practice may result in fouled spark plugs. (T or F)
21. The highest density altitude indicated on the Take-Off Distance vs Density Altitude is \_\_\_\_\_ feet. This chart is predicated on \_\_\_\_\_ runway, \_\_\_\_\_ weight, and flaps at \_\_\_\_\_ degrees or \_\_\_\_\_.
22. The flaps are manually operated, balanced for \_\_\_\_\_ forces and spring loaded to return to the \_\_\_\_\_ position. They have three extended positions which are: \_\_\_\_\_, \_\_\_\_\_, & \_\_\_\_\_ degrees.
23. Manual override of the landing gear is provided by an emergency gear lever located between the \_\_\_\_\_ to the left of the \_\_\_\_\_.
24. Before attempting to reset any circuit breaker allow a \_\_\_\_\_ to \_\_\_\_\_ minute cooling off period.
25. Always determine the position of the landing gear by checking the gear position lights. (T or F)
26. Check the following items before performing the emergency gear extension,
  - 1) Master switch \_\_\_\_\_
  - 2) Landing gear \_\_\_\_\_ & indicator circuit breakers \_\_\_\_\_
  - 3) Panel lights are \_\_\_\_\_ since gear indicator lights are \_\_\_\_\_ with panel lights on.
  - 4) Bulbs in the indicator lights have been \_\_\_\_\_.
27. Emergency gear extension should not be accomplished above \_\_\_\_\_ MPH.
28. Normally the best technique for \_\_\_\_\_ and \_\_\_\_\_ landings is to use full flaps and enough \_\_\_\_\_ to maintain the desired approach flight path.
29. A \_\_\_\_\_ fuel flow indication on the fuel flow \_\_\_\_\_ is a possible sign of \_\_\_\_\_ airbleed nozzles.

30. Cabin air is exhausted through an \_\_\_\_\_ below the \_\_\_\_\_.
31.  $V_{Vso}$  \_\_\_\_\_  $V_s$  \_\_\_\_\_  $V_r$  \_\_\_\_\_  $V_{fe}$  \_\_\_\_\_  
 $V_{no}$  \_\_\_\_\_  $V_{ne}$  \_\_\_\_\_  $V_a$  \_\_\_\_\_  
 $V_x$  (gear down) \_\_\_\_\_  $V_x$  (gear up) \_\_\_\_\_  
 $V_y$  (gear down) \_\_\_\_\_  $V_y$  (gear up) \_\_\_\_\_  
Cruise Climb \_\_\_\_\_  $V_{mg}$  (gear down) \_\_\_\_\_
32. Short-field take-off: Flaps \_\_\_\_\_ degrees. Rotate at \_\_\_\_\_ MPH. Accelerate to \_\_\_\_\_.  
Retract gear. Accelerate to \_\_\_\_\_. Retract flaps slowly.
33. The mixture should be leaned in cruising operation above \_\_\_\_\_ feet altitude and at pilot's discretion at lower altitudes when power is \_\_\_\_\_% or less. If there is any doubt whether power is below \_\_\_\_\_%, use full rich mixture.
34. On a normal landing, there will be less chance of skidding the tires if the \_\_\_\_\_ are \_\_\_\_\_ before applying the \_\_\_\_\_.
35. Braking is most effective when \_\_\_\_\_ is applied to the control wheel, putting most of the aircraft weight on the \_\_\_\_\_ - \_\_\_\_\_ without lifting the \_\_\_\_\_.
36. The ammeter displays the amount of charging current demanded by the battery in a "no load" condition. (T or F)
37. A rheostat switch of the left side of the switch panel control the navigation lights, dome instrument light and also dims the dome light. (T or F)
38. Prolonged slips, skids, or other radical or extreme maneuvers may cause \_\_\_\_\_ interruption if the fuel tank being use is not \_\_\_\_\_.
39. The pilot should become familiar with the proper position of there feet on the rudder pedals to avoid interference with the \_\_\_\_\_ when moving the rudder pedals or operating the toe brakes.
40. \_\_\_\_\_ takeoffs should be avoided as fuel flow interruption may occur if tank in use is not full.
41. The exhaust system is of the \_\_\_\_\_ - \_\_\_\_\_ type to reduce back pressure and improve performance.
42. If \_\_\_\_\_ is not indicated within \_\_\_\_\_ stop the engine and determine the trouble.
43. Starter manufacturers recommend that cranking periods be limited to 60 seconds with a two minute rest between cranking periods. (T or F)
44. Stall speed (power off - gear down) at a 40 degree angle of bank and flaps retracted is \_\_\_\_\_ MPH.
45. This aircraft is equipped with a Precise Flight \_\_\_\_\_ Vacuum System which provides a \_\_\_\_\_ vacuum system in the event of a \_\_\_\_\_ vacuum \_\_\_\_\_.
46. Failure of the vacuum system constitutes an emergency situation regardless of the standby vacuum system being installed. (T or F)
47. The alternate landing gear extension system and the "override positions" have been removed from N2611R (T or F)
48. The autopilot installed in N2611R is a Century I. (T or F)

Pilot \_\_\_\_\_ CFI \_\_\_\_\_ Date \_\_\_\_\_