

1. What is the **primary** instrument used in the initial takeoff configuration?
a. VSI b. Airspeed c. RPM / Manifold d. altimeter
2. Which is an indication of carburetor ice?
a. loss of rpm b. loss of airspeed c. loss of altitude
3. Which instrument is both a **rate** and **trend** indicator?
a. altimeter b. VSI c. attitude indicator
4. In a constant speed prop, what setting does one want in the takeoff configuration?
A high rpm / low pitch b. low rpm/high pitch c. cruise mode
5. Which instrument acts like a **barometer**?
a. VSI b. turn coordinator c. attitude indicator d. altimeter
6. Which is the **primary** instrument for pitch control while straight and level during cruise flight?
a. airspeed b. attitude indicator c. altimeter
7. Which **engine** instrument is used for power in an aircraft with a constant speed prop?
a. airspeed b. manifold pressure c. rpm
8. What is the **first** indication that ice is melting in the carburetor with the addition of carburetor heat?
a. increase in rpm b. decrease in rpm c. no change in rpm
9. If your altimeter is set to 30.12 on takeoff and your travel 100 mi. and not set it to a new altimeter setting which is 30.00". Your altimeter is going to read:
a. 120' high b. 120' low c. 1200' high
10. What is the **main** coolant in an aircraft engine? a. air b. oil c. radiator
11. Your pitot tube has a spider web clogging it on takeoff. How will it affect your airspeed indicator?
a. airspeed will read high b. airspeed will read low c. airspeed will read zero
12. What is a measure of **dynamic** pressure?
a. airspeed b. altitude c. rate of climb
13. If both the static port and the pitot tube are clogged, what instruments are affected?
a. airspeed / VSI/altimeter b. turn coordinator c. DG
14. Is it legal to takeoff with no oil pressure indicating on your oil pressure indicator? (yes or no)
15. You have just filled your fuel tanks to the top. Your fuel gauges are reading zero when you start the engine. You (can, cannot) continue the flight.
16. What is the minimum alt. over a rural area? a. 200' b.500' c.1000'
17. Which is a gyro instrument? a. VSI b. heading indicator c. altimeter

18. Flaps are both lift and drag control surfaces on an aircraft. (t or f)
19. Your VSI read 100' low as you taxi out. The flight must be cancelled (t or f)
20. Name the instruments REQUIRED for a VFR flight. _____, _____, _____, _____,
_____, _____, _____