

Brandywine Flight School

RENTAL PILOT QUIZ

Name: _____ Date: _____

Pilot Certificate # _____

Ratings: _____ Medical Certificate Class: _____

Medical Certificate Due: _____ Limitations: _____

Total Flight Time: _____ Time Last 90 Days: _____

Any Violations or Incidents: _____

Prior Rental History: _____

When and where you received your pilot's certificate: _____

Aircraft to be used: _____ N Number: _____

1. List the numerical value and definition for the following "V" speeds:

Va _____ KIAS _____

Vfe _____ KIAS _____

Vne _____ KIAS _____

Vno _____ KIAS _____

Vs _____ KIAS _____

Vso _____ KIAS _____

Vx _____ KIAS _____

Vy _____ KIAS _____

Best Glide Speed _____ KIAS

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2. List the fuel capacity.

Total Gal.:

Usable Gal.:

3. What type of fuel does this airplane use and what color is it?

4. What is the oil capacity of this airplane?

(note:) ALL TAS INC. AIRCRAFT USE PIDLLIPS X/C SAE 20W-50

5. What is the field elevation at Brandywine airport (KOQN)?

6. What is the traffic pattern altitude at Brandywine airport?

7. Brandywine uses _____ hand traffic for runway 27 and _____ hand traffic for runway 9.

8. What is the length and width of the runway at Brandywine?

9. What type of fuel can be substituted for an aircraft if the recommended octane is not available?

- A. The next higher octane aviation gas.
- B. The next lower octane aviation gas.
- C. Unleaded automotive gas of the same octane rating.
- D. Unleaded automotive gas of the next higher octane rating.

10. One of the main functions of flaps during the approach and landing is to:

- A. Decrease the angle of descent without increasing airspeed.
- B. Permit a touchdown at a higher indicated airspeed.
- C. Increase the angle of descent without increasing airspeed.
- D. Decrease lift, thus enabling a steeper-than-normal approach to be made.

11. Applying carburetor heat will:

- A. Result in more air going through the carburetor.
- B. Not affect the mixture.
- C. Enrichen the fuel/air mixture.
- D. Lean the fuel/air mixture.

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12. The first action after starting an aircraft engine should be to:
- A. Adjust for proper RPM and check for desired indications on the engine gauges.
 - B. Place the magneto or ignition switch momentarily in the OFF position to check for proper grounding.
 - C. Test each brake and the parking brake.
 - D. Visually clear the area for people and obstacles.
13. the most important rule to remember in the event of a power failure after becoming airborne is to:
- A. Quickly check the fuel supply for possible fuel exhaustion.
 - B. Determine the wind direction to plan for the forced landing.
 - C. Turn back immediately to the takeoff runway.
 - D. Maintain a safe airspeed.
14. When landing behind a large aircraft, the pilot should avoid wake turbulence by staying
- A. Above the large aircraft's final approach path and landing beyond the large aircraft's touchdown point.
 - B. Below the large aircraft's [mal approach path and landing before the large aircraft's touchdown point.
 - C. Above the large aircraft's [mal approach path and landing before the large aircraft's touchdown point.
 - D. Below the large aircraft's [mal approach path and landing beyond the large aircraft's touchdown point.
15. After takeoff, which airspeed would permit the pilot to gain the most altitude in a given period of time?
- A. V_y
 - B. V_x
 - C. V_a
 - D. V_r
16. Which would provide the greatest gain in altitude in the shortest distance during climb after takeoff?
- A. V_d
 - B. V_a
 - C. V_x
 - D. V_y
17. A Third-Class Medical Certificate is issued on August 10, this year. To exercise the privileges of a private pilot certificate, the medical certificate will be valid until midnight on: (for a pilot over the age of 40)
- A. August 10, 3 years later.
 - B. August 10, 2 years later.

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- C. August 31, 3 years later.
- D. August 31, 2 years later.

18. To act as a crew Member of a civil aircraft, alcoholic beverages may not have been consumed within the previous _____ hours or have a blood alcohol level of _____.

19. What documents must be aboard an aircraft during flight?
Hint: (AROW).

20. Who is responsible for determining if an aircraft is in condition for safe flight?
- A. A certificated aircraft mechanic.
 - B. A certificated aircraft maintenance inspector.
 - C. The pilot in command.
 - D. The owner or operator.

21. When two or more aircraft are approaching an airport for the purpose of landing, the right-of way belongs to the aircraft:

- A. That has the other to its right.
- B. That is the least maneuverable.
- C. That is either ahead of or to the other's right, regardless of altitude.
- D. At the lower altitude, but it shall not take advantage of this rule to cut in front of or to overtake another.

22. What action is required when two aircraft of the same category converge at the same altitude, but not head-on?

- A. The more maneuverable aircraft shall give way.
- B. The faster aircraft shall give way.
- C. The aircraft on the left shall give way.
- D. Each aircraft shall give way to the right.

23. Prior to takeoff, the altimeter should be set to:

- A. The current local altimeter setting, if available, or the departure airport elevation.
- B. The corrected density altitude of the departure airport.
- C. The corrected pressure altitude for the departure airport.
- D. A barometric pressure of 29.92" Hg.

24. Except when necessary for takeoff and landing, what is the minimum safe altitude required for a pilot to operate an aircraft over congested areas?

- A. An altitude allowing, if a power unit fails, an emergency landing without undue hazard to persons or property on the surface.
- B. An altitude of 1,000 feet above any person, vessel, vehicle, or structure.
- C. An altitude of 500 feet above the highest obstacle within a horizontal radius of 1,000 feet.

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D. An altitude of 1,000 feet above the highest obstacle within a horizontal radius of 2,000 feet.

25. VFR flight above 1,200 feet AGL and below 10,000 feet MSL requires a minimum visibility and vertical cloud clearance of:

- A. 3 SM, and 500 feet below or 1,000 feet above the clouds in controlled airspace.
- B. 5 SM, and 1,000 feet below or 1,000 feet above the clouds at all altitudes.
- C. 5 SM, and 1,000 feet below or 2,000 feet above the clouds in controlled airspace.
- D. 3 SM, and 1,000 feet below or 2,000 feet above the clouds at all altitudes within and outside of controlled airspace.

26. Why is frost considered hazardous to flight?

- A. The increased weight requires a greater takeoff distance.
- B. Frost changes the basic aerodynamic shape of the airfoil.
- C. Frost decreases control effectiveness.
- D. Frost causes early airflow separation resulting in a loss of lift.

27. To get a complete weather briefing for the planned flight, the pilot should request:

- A. an outlook briefing.
- B. a general briefing.
- C. an abbreviated briefing.
- D. a standard briefing.

28. What is the emergency communication frequency?

- A. 122.0
- B. 123.0
- C. 121.5
- D. 122.5

29. What are the VFR fuel requirements for a cross country flight during the day?

- A. Enough fuel to reach your destination.
- B. Enough fuel to reach your destination plus 30 minutes reserve.
- C. Enough fuel to reach your destination plus 45 minutes reserve.
- D. Enough fuel to reach your destination plus enough to reach your alternate airport.

30. What does FAR 91.103 mean to you, the pilot in command?

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BFS. WILL REQUIRE THE FOLLOWING:

- COPY OF YOUR PILOT'S CERTIFICATE
- COPY OF YOUR MEDICAL CERTIFICATE
- COPY OF A PHOTO ID (DRIVER'S LICENSE/PASSPORT)
- COPY OF LOGBOOK ENDORSEMENTS (BFR OR EQUIVALENT)
- YOU WILL BE ASKED TO PERFORM A WEIGHT AND BALANCE FOR THE APPLICABLE AIRCRAFT.
- YOU ARE REQUIRED TO POSSESS THE APPLICABLE PILOT'S OPERATING
- HANDBOOK FOR ALL AIRCRAFT THAT YOU WISH TO BE CHECKED OUT IN.
- WE HERE AT TAS INC. ARE COMMITTED TO SAFETY, EDUCATION AND FEEL THAT THE BEST SAFETY DEVICE IN THE AIRCRAFT IS A WELL TRAINED PILOT.

Instructor's signature _____

Rental Pilot signature _____

Date: _____