ANSWER KEY

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Student Pilot Written Exam

Aircraft Make and Model: C172S

Take-Home Test

Instructions: Answer each question in the space provided using a current FAR/AIM, Chart Supplement U.S., and POH/AFM. Use the space to the left of the question number to list the reference for each question. The instructor may pick and choose particular questions to shorten the length of the test.

True/False Questions: (Indicate with a T or F)

1. When overtaking another aircraft from behind, you should pass to the right. **T §91.113(f)**
2. You may be denied a student pilot certificate if you refuse to submit to an alcohol test or furnish test results. **T §61.16**
3. A student pilot may log all solo flight time as PIC time. **T §61.51(e)(4)(i)**
4. A student pilot must have their logbook, student pilot certificate and medical certificate for each solo flight. **T (§61.3)**
5. A student pilot may exercise their pilot privileges any time after alcohol has been consumed as long as blood alcohol content does not exceed 0.04%. **F §91.17(a)(1)**
6. As a student pilot flying under day VFR, you must only carry enough fuel to reach the first point of intended landing. **F §91.151(a)(1)**
7. An ELT that has been activated can be monitored on 121.5. **T AIM 6-2-4**
8. A pilot must maintain separation from other aircraft as to not create a hazard or collision with other aircraft. **T §91.111(a)**
9. If two aircraft of the same category are converging, the aircraft to the other's left has the right of way. **F §91.113(e)**
10. The FAA must be notified within 90 days of a permanent address change. **F §61.60**
11. The owner/operator of an aircraft is responsible for determining whether that aircraft is airworthy. **F §91.7(a)**
12. Over sparsely populated areas, an aircraft must be operated at least 500 ft. AGL. **F §91.119(c)**
13. Class C airspace normally extends vertically to 4000 ft. AGL. **T AIM 3-2-4**
14. A student pilot may operate an aircraft in Class B airspace provided they have received and logged instruction in that airspace and received a logbook endorsement. **T §61.89(c)(4)**
15. A pilot must receive a clearance before entering Class C airspace. **F AIM 3-2-4(c)(3)**
16. In Class E airspace below 10,000 ft. MSL, you must keep a distance of 500 ft. below, 1000 ft. above and 2000 ft. horizontal of any clouds and have at least 3 SM visibility. **T §91.155**
17. While on a cross country flight above 3000 ft. AGL, an odd altitude plus 500 ft. should be maintained while on a magnetic ~~heading~~ COURSE of 220°. **F §91.159(a)(1)**
18. You may legally enter Class C airspace under VFR with 1 SM visibility and clear of clouds. **F §91.155**
19. Student pilots receiving dual instruction must have a current medical. **F §61.3(a)(3)**
20. You must notify the NTSB immediately if you experience an engine failure in flight. **F NTSB §830.5**
21. For any flight, each pilot in command shall become familiar with the runway lengths of intended use at each airport as well as takeoff and landing data contained within the POH/AFM. **T §91.103(b)(1)**
22. Pilots may never fly within the limits of prohibited or restricted airspace. **F §91.133(a)**
23. Prior to each solo flight, a pilot needs to ensure that the airplane has onboard: an airworthiness certificate, registration, POH/AFM, weight and balance documents and airframe logbooks. **F §91.203**
24. Any flight exceeding 25 NM from the home based airport can be logged as cross country flight time. **F §61.1** *Definitions*

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Pre-Solo Quiz

Instructions: Answer each question in the space provided using the POH/AFM and Chart Supplement U.S. The instructor may pick and choose particular questions to shorten the length of the quiz.

1. Define and list the following speeds for your aircraft:

V_{S0}: 40 KIAS (5-13)	V_X: 56 KIAS (5-15)	V_A: 110 KIAS (2-4)
V_{S1}: 48 KIAS (5-13)	V_Y: 73 KIAS (5-18)	V_{NO}: 129 KIAS (2-4)
V_R: 51 KIAS (5-15)	V_{FE}: 85 KIAS (2-4)	V_{NE}: 163 KIAS (2-4)

Best Glide (in still air): 68 KIAS (3-26)

2. Maximum Takeoff Weight: 2550 lbs. Empty Weight: 1663 lbs.

3. Fuel Capacity (USG): 56 Pounds: 56*(6) = 336 lbs.

   Usable (USG): 53 Pounds: 53*(6) = 318 lbs.

4. Oil Capacity: Maximum: 8 qts. (iii) Minimum: 5 qts. (iii) *minimum quantity in sump

5. Maximum Useful Load with Full Fuel: 895 ~~-336=559~~ 318 (iii) = 577

6. Calculate the CG during a solo flight with Full Fuel: *USE W&B DOCS WITH STUDENT*

   Within Limits? Y ~~N~~ (POH Section 6)

7. Takeoff Distance (Full Fuel) Including CFI

   Altitude: Pressure Altitude 4500 (POH Section 5; Performance Data)

   Temperature: _____ (5-16)

   Ground Roll: _____

   Over 50 ft. Obstacle: _____

8. Landing Distance (2550 lbs.)

   Altitude: _____ (POH Section 5; Performance Data)

   Temperature: _____

   Ground Roll: _____

   Over 50 ft. Obstacle: _____

9. Radio Frequencies at RNO

Description	MHz	Description	MHz
RNO ATIS (WX/NOTAMS)	135.800	Reno Tower	118.700
Reno Clearance Delivery	124.900	NORCAL Dep.	119.200
Reno Ground Control	121.900	NORCAL Dep.	126.300

10. Radio Frequencies at RTS / CXP

Stead Common Traffic Advisory Freq.	122.700	Carson CTAF	123.000
Stead AWOS-3	135.175	Carson AWOS-3PT	119.925