Phase 1: Pre-Flight

	Fliers uburn Way North, #223 WA 98002	N	ame:	
		Certificate Nur	nber:	
Instructo	r:	Certificate 7 Rat	Гуре: tings:	
Check O	out Date:	Total Flight 7	Γime:	Last 90 Days:
Club che	eck out is in two phases: Phas	se 1 – Pre-flight. F	hase	2 – Flight.
check out	open book check out. The aircra Read the question and the poss ext to the question.			equired to complete the Phase 1 letter of the most correct answer on
1	The maximum take-off weight of C normal category is:	172 N80117 in the	b.	2200 pounds 2300 pounds 2250 pounds
2	The empty weight of C172 N8011	7 is:	b.	1449.3 pounds 1500 pounds 1556.4 pounds
3	The useable fuel capacity of N801	17 is:	b.	45 gallons total, 40 gallons useable 40 gallons total, 39 gallons useable 42 gallons total, 38 gallons useable
4	What is the total engine oil capacit extended flight, when should oil be		b.	6 qts, 4 qts minimum, fill to 6 qts. 8 qts, 6 qts minimum, fill to 7 qts. 6 qts, 4 qts minimum, fill to 5 qts.
5	The maximum allowable weight th the baggage areas in normal cate		b.	120 pounds 135 pounds 100 pounds
6	The maximum allowable weight of the baggage area 2, how much we baggage area 1?		b.	100 pounds 50 pounds 70 pounds
7	The maximum allowable weight the baggage areas in utility category		b.	50 pounds in area 2, 25 pounds in area 1 None, both areas must be empty. 70 pounds combined total of areas 1 and 2
8	The first indication of carburetor ic normally aspirated engine in cruise pitch propeller is:		b.	A gradual decrease in RPM A sudden decrease in RPM Rough running engine and RPM loss
9	The normal leaning procedure in a EGT is to set the engine up for cruuntil engine RPM peaks and begin	ise, lean the mixture	b.	Enrich the mixture until RPM drops 50 RPM Enrichen slightly back to peak RPM Lean the mixture another 25 RPM

Updated: 8/6/2022 Page 1 of 6

10	The maximum gross weight for operation in the utility category is:	a. b. c.	
11	What is the maximum allowable aft CG in the utility category?	a. b. c.	
12	What is the maximum allowable aft CG in the normal category?	a. b. c.	
13	The airspeed indicator in N80117 registers in:	b.	KPH MPH KTS
14	What is the maximum <u>demonstrated</u> cross wind component of a C172?		15 MPH 12 KTS 15 KTS
15	The distance to clear a 50 ft. obstacle in a maximum effort, no wind, 2300 lb. gross from a paved runway at sea level with a temperature of 15 C (59 F) and altimeter setting of 29.92" is:	b.	1525 feet 1340 feet 1440 feet
16	If the runway in question 15 was a dry grass strip, the take-off data would have to be adjusted by:	a. b.	Increase both the ground run and total distances by 7% of the total to clear a 50 foot obstacle
17	What engine setting would produce the closest performance to 75% brake horse power at 5,000 feet on a standard day?	a. b. c.	2600 RPM, for 8.3 gallons/hour 2400 RPM, for 8.0 gallons/hour 2500 RPM, for 7.7 gallons/hour
18	What is the recommended tire pressure for the main gear tires?	a. b. c.	32 psi on 6.00 x 6 tires
19	What is the recommended tire pressure for the nose gear tire?	a. b. c.	32 psi on 5.00 x 5 tire
20	What power setting and airspeed is recommended for a cruise climb?	a. b. c.	Full throttle and 70-90 KTS
21	What power setting is recommended for cruise flight?	a. b. c.	,
22	When securing the aircraft, the fuel selector valve should be:	a. b. c.	Turned to the right tank to prevent siphoning Remain on "Both" Turned to the fullest tank
23	What is the approved flap range for take-off?	a. b. c.	0 to 10 degrees Flaps not recommended for take-off 0 to 20 degrees

Updated: 8/6/2022 Page 2 of 6

- 24. ____ When the Ammeter is broken and not working is a C172 a. Yes, it is not an instrument or considered airworthy and can be flown?
 - equipment required by FAR 91.205
 - Yes, if the battery is less than one year old and fully charged
 - No, the equipment list indicates it is required for FAA certification
- **25**. Using the Cessna manual's loading graph and center of gravity moment envelope for C172 N80117, calculate the CG for the following:

Item	Weight	Moment/1000
Empty Weight		
Useable Fuel – 40 gallons	240	
Pilot and Co-Pilot	320	
Rear Seats	212	
Baggage Area 1	70	
Baggage Area 2	Empty	
Total Weight and Moment		

26. Using the Cessna manual's loading graph and center of gravity moment envelope for C172 N80117, calculate the CG for the following:

Item	Weight	Moment/1000
Empty Weight		
Useable Fuel – 20 gallons		
Pilot and Co-Pilot	340	
Rear Seats	Empty	
Baggage Area 1	Empty	
Baggage Area 2	Empty	
Total Weight and Moment		

27	Comparing the two weight and balance computations
	(questions 21 and 22), which configuration fits the utility category?

a. Both Question 25 b.

Question 26

What is the recommended approach speed with flaps down?

a. 75 to 85 KTS

b. 75 to 80 KTS

c. 55 to 65 KTS

Updated: 8/6/2022 Page 3 of 6

29 .	Provide the following airspeeds (IAS):	Ass	ume: Most forward CG and Gross Weight
	 Va Design maneuvering speed Vno Maximum cruise speed Vne Never exceed speed Vy Best rate of climb speed Vx Best angle of climb speed Vfe Maximum flap extension speed Vs1 Power off stall, flaps up Vs0 Power off stall, flaps down 		
30	What airspeed produces the best glide for an engine out glide from 8,000 feet and how far could you glide in a zero wind condition?	b.	100 MPH IAS, glide distance 20 SM 65 KTS IAS, glide distance 12 SM 85 KTS IAS, glide distance 18 SM
31	What is the stalling speed in a 60 degree bank with full flaps at the most rearward CG?	b.	62 KTS IAS 51 KTS IAS 45 KTS CAS
32	The easiest way to ground handle this aircraft is to use the tow bar. What is the tow bar turning angle limits?	b.	Do not exceed 30 degrees from center To the limit where it will turn no further Do not exceed 60 degrees from center
33	Where is the emergency locator transmitter (ELT) located?		In the baggage compartment, right side Behind the baggage compartment In the baggage compartment, near door
34	How is the ELT armed in this aircraft?	b.	A switch on the unit's case It is always armed A switch on the instrument panel, left side
35	Where is the battery located?	b.	Behind the baggage compartment Behind the engine, on the firewall Under the rear seats
36	What is the voltage of the electrical system?	a. b. c.	14 volt generator, 12 volt battery 28 volt alternator, 24 volt battery 14 volt alternator, 12 volt battery
37	Does C172 N80117 have a radio master switch?		No, shut off each radio individually Yes, for comm radios only Yes, individual switches can be left on

Updated: 8/6/2022 Page 4 of 6

38	What engine RPM is used for a magneto check?	b.	2000 RPM 1700 RPM 2300 RPM
39	When will the red "low voltage" light illuminate?	b.	When the alternator field current shuts off or low RPM during taxi When the battery is depleted When the electrical system is overloaded
40	What is the normal engine RPM operating range at sea level?	b.	2200-2500 RPM 2000-2600 RPM 1900-2300 RPM
41	What minimum fuel grades (octane) are authorized for use in N80117 and how many fuel drain locations are there?	b.	AV 80/87 – 3 drains AV100LL – 3 drains AV 80/87 – 4 drains
42	To act as pilot in command of this aircraft, you must be rechecked in the aircraft:	b.	Every Bi-Annual Every year If you have not flown a like aircraft in the preceding 90 days or when deemed by the Club
43	Who is responsible for the aircraft documentation that must be on board the airplane before flight?	b.	The maintenance officer The pilot in command The safety officer
44	Who is responsible for cleaning the airplane interior and windows after a flight?		The next user The cleaning crew The pilot who just completed the flight
45	Who is responsible for installing the control lock, securing the tie-downs and locking the aircraft's doors and windows?	b.	The maintenance officer The person assigned to ramp duty The pilot who just completed the flight
46	Who can perform any maintenance or modifications on club aircraft?	b.	Any Club member on the active list Anyone with a pilot's license, except students The maintenance officer or his designee
47	Who can instruct in club aircraft?	b.	Affiliated instructors approved by the board Any instructor appointed by an associate An instructor hired by the member
48	In order to complete a check out in the C172, a club member must complete:		A club authorized check out A check out from an FBO A check out form signed by any instructor

Updated: 8/6/2022 Page 5 of 6

Phase 2: Flight

Valley Fliers		
1402 Auburn Way North, #223 Auburn WA 98002	Name:	
	Certificate Number:	
Instructor:	D-6	
Check Out Date:	Total Flight Time:	Last 90 Days:
Club check out is in two phases: Phase 1 – Pre-flight. The Phase 1 check out should be completed and d		se 2 check out.
Flight Review		Instructor initials indicating satisfactory performance – refer to applicable PTS
Pre-Flight Inspection		
II. Check List and Pre-Start Procedures		
III. Starting Engine		
IV. Normal Departure Operations a. Taxing b. Pre Take-off Checks c. Normal Take-off d. Climb – appropriate power settings		a b c d
e. Cruise – appropriate power settings		e
V. Air Work a. Steep Turns b. Flight at Minimum Controllable Airspeed c. Stall Recognition and Recovery d. Recovery from Unusual Attitudes by refe e. Simulated Emergency Descent	erence to instruments	a b c d e
VI. Normal Arrival Operations a. Descent and check list procedures b. Normal landings		a b
VII. Pattern Work a. Cross wind take-off and landing b. Short field take-off and landing c. Soft field take-off and landing d. Go arounds e. Zero Flap landing		a b c d e
VIII. After Landing and Post-Flight Procedures		
IX. Remarks:		
Overall Completion of Transition or Original Aircraft Check Out Phase 1 – Ground Instruction Hours of ground instruction completed: Hours of flight instruction completed:		
Instructors signature:	Instructors signature:	
Certificate number:	Certificate number:	
Expiration date:	·	
I have received training to operate a Cessna C172 above.	aircraft and completed the	ground and flight training noted
Pilots signature:	Date:	

Updated: 8/6/2022 Page 6 of 6