C177

				Phase 1: Pre-Flight
Valley Fliers 1402 Auburn Way North, #223 Auburn WA 98002			Name:	
Aubun	1 WA 30002		Certificate Number:	
Instructo	or:	-	Certificate Type: Ratings:	
Check (Dut Date:	_	Total Flight Time:	Last 90 Days:
Club ch	eck out is in two phases: P	hase	e 1 – Pre-flight. Phase 2	2 – Flight.
check ou				quired to complete the Phase 1 letter of the most correct answer on
1	The gross weight of C177 N34727 is:		2500 pounds 3000 pounds 2650 pounds	
2	The empty weight of C177 N34727 is:	b.	1829 pounds 1730 pounds 1634 pounds	
3	The useable fuel capacity of N34727 is:	a. b. c.	50 gallons total, 49 gallons	useable
4	What is the total engine oil capacity and, except for an extended flight, when should oil be replenished?	b.	8 qts, 6 qts minimum, fill to 10 qts, 8 qts minimum, fill to 8 qts, 4 qts minimum, fill to	o 9 qts.
5	The maximum allowable weight that can be placed in the baggage areas in normal category operations is:	b.	150 pounds 200 pounds 120 pounds	
6	Excessively high engine temperatures, either in the air or on the ground will:		Increase fuel consumption Result in damage to hoses Cause loss of power, exces engine damage	and fittings sive oil use and possible internal
7	Which statement regarding the use of the cowl flaps is most correct?	a. b. c.	during cruise they should be approximately two thirds of arc)	ground operation for ground operations and climbs- e adjusted to maintain CHT at the normal operating range (green and can always remain closed
8	The first indication of carburetor ice in an aircraft with a constant speed propeller is:	a. b. c.	A decrease in RPM A decrease in manifold pres Rough running engine and l	
9	Before the engine is started you notice the manifold	a. b.	Gage is stuck at the full pov Throttle is closed, trapping a	

	pressure gage is indicating about 29" hg. This is because the:	c.	Manifold pressure equal atmospheric pressure when engine is not running
10	What is the primary advantage of a constant speed propeller?	a. b. c.	To maintain a specific engine speed To obtain a suitable pitch setting for each situation and power setting To obtain a selected pitch angle regardless of the flight situation or power setting
11	When operating an aircraft with a constant speed propeller, which procedure places the least stress on cylinder components?	b.	When decreasing power, 1 st reduce RPM When decreasing power, keep the RPM constant-reduce manifold pressure only When decreasing power, reduce manifold pressure before RPM
12	The airspeed indicator in N34727 registers in:		KPH KTS MPH
13	What is the maximum cross wind component for this aircraft?	b.	15 kts 10 kts 20 kts
14	The distance to clear a 50 ft. obstacle in a maximum effort, no wind, 2200 lb. weight from a paved runway at sea level with a temperature of 15 C (59 F) and altimeter setting of 29.92" is:	b.	705 feet 1430 feet 1085 feet
15	If the runway in question 15 was a dry grass strip, the take-off data would have to be adjusted by:		Increase the total distance by 10% Increasing the ground run by 15% Increase both the ground run and total distances by 7% of the total to clear a 50 foot obstacle
16	What engine setting would produce the closest performance to 70% brake horse power at 5,000 feet on a standard day?	b.	2400 RPM, 22" hg for 9.4 gallons/hour 2300 RPM, 21" hg for 8.5 gallons/hour 2200 RPM, 24" hg for 10 gallons/hour
17	With a normally aspirated engine what happens to the manifold pressure during a climb?	a. b. c.	The manifold pressure increases approximately 1" hg per 1000' of climb The manifold pressure decrease approximately 1" hg per 1000' of climb The manifold pressure remains constant due to the variable pitch propeller
18	What power setting and airspeed is recommended for a cruise climb?	a. b. c.	2500 to 2700 RPM and 26" hg 2500 to 2700 RPM and 24" hg 2400 to 2600 RPM and 21" hg
19	What is the recommended final approach speed with the flaps extended?	a. b. c.	70 to 80 MPH 60 to 70 MPH 50 to 60 MPH

20	What airspeed produces the	a.	80 MPH
	best glide for an engine out	b.	70 MPH
	glide?	c.	85 MPH

- 21. ____ What is the stalling speed in a 60 degree bank with **a.** 70 MPH IAS full flaps? (forward CG)
- 22. ____ What is the recommended flap setting for normal take-off?

b. 75 MPH IAS c. 64 MPH IAS

a. 10 degrees b. Flaps not recommended for take-off

c. 0 to 15 degrees

23.

Using the Cessna manual's loading graph and center of gravity moment envelope for C177 N34727, calculate the CG for the following:

ltem	Weight	Moment/1000
Empty Weight		
Oil (9 qts)	17	
Fuel – 50 gallons		
Pilot and Co-Pilot	355	
Rear Seats	225	
Baggage Area	85	
Total Weight and Moment		

24	What is the recommended tire pressure for the main gear tires?	b.	32 psi on 6.00 x 6 tires 42 psi on 6.00 x 6 tires 30 psi on 6.00 x 6 tires
25	What is the recommended tire pressure for the nose gear tire?		32 psi on 5.00 x 5 tire 35 psi on 5.00 x 6 tire 49 psi on 5.00 x 5 tire

26	When securing the aircraft, the fuel selector valve should be:	b. Ren	ed to either the left or rig nain on "Both" ned to the fullest tank	ht tank to prevent siphoning
27.	$\begin{array}{llllllllllllllllllllllllllllllllllll$	ering speed peed b speed mb speed xtension laps up	 d, Flaps 20	

28	The easiest way to ground handle this aircraft is to use the tow bar. What is the tow bar turning angle limits?	a. b. c.	Do not exceed 29 degrees from center To the limit where it will turn no further Do not exceed 45 degrees from center
29	Where is the emergency locator transmitter (ELT) located?	a. b. c.	Behind the instrument panel on the left side In the baggage compartment, near door Behind the baggage compartment
30	How is the ELT armed in this aircraft?	b.	A switch on the unit's case A switch on the instrument panel, left side It is always armed
31	Where is the battery located?	a. b. c.	
32	What is the voltage of the electrical system?	a. b. c.	14 volt generator, 12 volt battery28 volt alternator, 24 volt battery14 volt alternator, 12 volt battery
33	Does C177 N34727 have a radio master switch?	a. b. c.	No, shut off each radio individually Yes, for comm radios only Yes, individual switches can be left on
34	What engine RPM is used for a magneto check?	a. b. c.	2000 RPM 1700 RPM 1800 RPM
35	When are spins allowed to be practiced in this airplane?	a. b. c.	In Utility Category Never, spins are prohibited In Normal Catergory
36	What is the normal tachometer operating range at sea level?	a. b.	1700-2500 RPM 2100-2500 RPM

- 37. ____ What is the manifold gage operating range? 38. ____ What minimum fuel grades (octane) are authorized for use in N34727 and how many fuel drain locations are there? 39. ____ Who is responsible for the aircraft documentation that must be on board the airplane before flight? 40. ____ Who is responsible for cleaning the airplane interior and windows after a flight? Who is responsible for installing the control lock, 41. _____ securing the tie-downs and locking the aircraft's doors and windows?
- **42**. ____ Who can perform any maintenance or modifications on club aircraft?
- **43**. ____ You notice some oil streaks on the cowl and windscreen. When you wipe it off you notice that the oil is very red. This indicates:

- **c.** 1700-1900 RPM
- **a.** 17-30" hg
- **b.** 15-24" hg
- **c.** 15-29" hg
- a. AV 91/96, AV100LL 4 drains
- **b.** AV 80/87, MoGas 3 drains
- c. AV100LL, AV91/96 3 drains
- a. The maintenance officer
- b. The pilot in command
- c. The safety officer
- a. The next user
- b. The cleaning crew
- c. The pilot who just completed the flight
- a. The maintenance officer
- **b.** The person assigned to ramp duty
- c. The pilot who just completed the flight
- **a.** Any Club member on the active list**b.** Anyone with a pilot's license, except students
- **c.** The maintenance officer or his designee
- **a.** The propeller dye pack is activated. The airplane is grounded.
- b. The propeller hydraulic fluid is leaking
- c. The oil contains Marvin's Mystery Oil

C177

Phase 2: Flight

Valley Fliers 1402 Auburn Way North, #223 Auburn WA 98002	Name:	
Aubum WA 90002	Certificate Number:	
Instructor:		
Check Out Date:	Total Flight Time:	Last 90 Days:

Club check out is in two phases: Phase 1 – Pre-flight. Phase 2 – Flight. **The Phase 1 check out should be completed and discussed prior to the Phase 2 check out.**

I. Pre-Flight Inspection II. Check List and Pre-Start Procedures III. Starting Engine IV. Normal Departure Operations
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III. Starting Engine
IV. Normal Departure Operations
a. Taxing a
D. Pre Take-off Checks [D
c. Normal Take-off c
d. Climb – appropriate power settings d
e. Cruise – appropriate power settings e
V. Air Work
a. Steep Turns a
b. Flight at Minimum Controllable Airspeed b b
c. Stall Recognition and Recovery c
d. Recovery from Unusual Attitudes by reference to instruments d
e. Simulated Emergency Descent e
VI. Normal Arrival Operations
a. Descent and check list procedures a
b. Normal landings b
VII. Pattern Work
a. Cross wind take-off and landing a
a.Cross wind take-off and landinga.b.Short field take-off and landingb.
c. Soft field take-off and landing c
d. Go arounds d
e. Zero Flap landing e
VIII. After Landing and Post-Flight Procedures
IX. Remarks:

Overall Completion of Transition Phase 1 – Ground Instruction Hours of ground instruction completed:	n or Original Aircraft Check Out Phase 2 – Flight Review Hours of flight instruction completed:
Instructors signature:	Instructors signature:
Certificate number:	Certificate number:
Expiration date:	Expiration date:

I have received training to operate a Cessna C177 aircraft and completed the ground and flight training noted above.

Pilots signature:

Date: