## CESSNA 182P Three points each question

References: Pilot's Operating Handbook for the 1975 Cessna 182P Model; RAFA SOP, Refueling Instructions (in front of POH and airplane flyaway book), and The Pilots Handbook of Aeronautical Knowledge.

- 1. Do not operate with less than \_\_\_\_ quarts of oil for normal flights of less than 3 hours; fill to \_\_\_\_ quarts for extended flights.
  - a. 4/8 b. 8/12 c. 7/11 d. 10/12
- 2. The engine in the C-182P is a
  - a. Lycoming IO-520J 250 HP c. Continental O-470S 230 HP
  - b. Continental O450T 330 HP d. Lycoming O-360A 180 HP
- 3. Normal takeoff procedure is to raise the nose wheel at \_\_\_\_ mph and climb at \_\_\_\_mph. a. 65 / 95 b. 60 / 90 c. 55 / 80 d. 75 / 95
- 4. The flap setting for a maximum-performance (short-field) takeoff is \_\_\_\_\_ degrees. a. 30 b. 10 c. 35 d. 20
- 5. Normal takeoffs are accomplished using full throttle and 2,600 RPM. Whenever possible, reduce power to normal cruise climb power of \_\_\_\_\_ in. manifold pressure and \_\_\_\_\_ RPM as soon as practical to reduce engine wear.
  - a. 20 / 2200 b. 22 / 2500 c. 23 / 2350 d. 23 / 2450
- 6. According to the POH, how much of that fuel is unusable in each tank?
  - a. 3 gallons b. 5 gallons c. 10 gallons d. 1 gallon
- 7. The best rate of climb (Vy), flaps up, for this C-182 is:
  - a. 78 mph b. 66 mph c. 89 mph d. 70 mph
- 8. The best angle of climb (Vx) (obstacle-clearance speed) with 20° flaps is \_\_\_\_ mph and with 0° flaps (clean) is \_\_\_\_ mph.
  - a. 78 / 80 b. 60 / 70 c. 70 / 80 d. 69 / 75
- 9. The before landing checklist requires the pilot to set the propeller to \_\_\_\_\_ RPM.

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a	2600 b	o. 2500 c.	2450 d.	High RPM	
10. Final	approach spee	ed is to n	ph with flaps	extended.	
a	70-80	b. 70-85	c. 65-75	d. 60-90	
11. In the	e event of an el	lectrical fire in fli	ght, the first a	ction of the pilot	should be:
a. b	Activate fire Master Swit	e extinguisher ch off	c. Cab d. Chec	in vent open k circuit breakers	8
12. With Data	the long range sheet (found n	e tanks installed o ear front of manu	n our C-182P al), the maxir	and as stated in ( num usable fuel c	Cessna's Revised Fuel Quantity capacity isgallons.
a	40 b. 8	35 c. 75	d. 65		
13. Fuel	from both tank	ts flows by gravit	y to a selector	valve; this valve	should be in the BOTH position:
a. b	Always Only when a	cruising	<ul><li>c. For takeof</li><li>d. When tax</li></ul>	f, climb, and land ling to prevent slo	ding oshing
14 This	airplane is equ	ipped with a	volt batterv	supplied by a	volt engine-driven alternator

14. This airplane is equipped with a \_\_\_\_\_ volt battery supplied by a \_\_\_\_ volt, engine-driven alternator. The battery is located \_\_\_\_\_:

> a. 24 / 18 / under the seat c. 24 / 28 / right side of firewallb. 12 / 22 / in the nose d. 12 / 14 / aft of baggage compartment

15. To determine proper alternator and voltage regulator operation prior to takeoff, you may load the electrical system by turning on the\_\_\_\_\_. If the ammeter remains within \_\_\_\_\_\_ of zero, the system is operating properly.

- a. Navigation lights / two inches
  b. Prop control / two needle widths
  c. Heater blower / two dots
  d. Landing light(s) / one needle d. Landing light(s) / one needle width

16. Power setting for normal enroute cruise climb of 100 to 120 mph should be accomplished at \_\_\_\_\_ inches manifold pressure and \_\_\_\_\_ RPM.

a. 23/2450 b. 25/2300 c. 22/2400 d. 22/2600

Test

17. The zero/full flap stall speeds as shown on the ASI:

a. 55/60 MPH	c. 66/66 MPH
b. 70/73 Knots	d. 68/63 MPH

- 18. The engine is tightly cowled for control of cooling. Cowl flaps should be open during \_\_\_\_\_\_ and adjusted to maintain the cylinder head temperature at about \_\_\_\_\_\_ of the green arc during cruise.
  - a. Taxi & Takeoff, 2/3
  - b. At all times, Halfway
  - c. Never, 1/2
  - d. Only when parked, The bottom

19. For optimum operation of the engine in cold weather:

- a. Crank the engine with carburetor heat on
- b. Use carburetor heat during warm-up
- c. Use the minimum carburetor heat for smooth operation during takeoff, climb, and cruise
- d. Answers b. and c.

20. Maneuvering speed (V<sub>A</sub>), the maximum speed at which abrupt control movements may be used, is:

a. 109 mph b. 100 mph c. 145 mph d. 126 mph

- 21. The first 10° of flaps may be lowered when airspeed is \_\_\_\_\_. The remaining flaps (20-40 deg) may be extended when at or below \_\_\_\_\_:
  - a. 89/63 mph b. 160/110 mph c. 175/110 mph d. 110/85 mph
- 22. The maximum certificated weight for takeoff and landing is:
  - a. 3100 lbs. b. 2900 lbs. c. 2950 lbs d. 2775 lbs.
- 23. You are preparing for a short field takeoff. The plane weighs 2,950 lbs, there is a 10 knot headwind, the temperature is 50° F, pressure altitude is 2,500 feet and you have a hard surface runway.. Determine the ground roll and the total distance to clear a 50 foot obstacle.

a. 325/955 b. 595/1625 c. 595/1245 d. 490/1245

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- 24. When performing the magneto check during run up, set RPM to 1700, and note RPM drop on right position "R" and left position "L". RPM drop should not exceed \_\_\_\_\_\_ RPM on either magneto or show greater than \_\_\_\_\_\_RPM between magnetos.
  - a. 175/25.
  - b. 160/40,
  - c. 150/50
  - d. 200/150

25. Maximum glide airspeed ( $V_{BG}$ ) is:

- a. 96 mph b. 105 mph c. 85 mph d. 80 mph
- 26. Compute the center of gravity for this airplane with full fuel, 210 lb. pilot, and a 230 lb. passenger in the front seats.

	Weight	Arm	Moment
<u>Airplane</u>	<u>1826.28</u>	<u>36.28</u>	
Fuel (75 Gallons)		<u>48.0</u>	<u>21600.0</u>
Pilot & Passenger	<u>440.0</u>		<u>16280.0</u>
Total	2716.28		

- a. 45.67 inches
- b. 38.34 inches
- c. 23.16 inches
- d. 41.29 inches

## 27. Is N1298M approved for intentional spins?

a. Yes b. No

- 28. Cruising at 7,500 feet, mixture properly leaned, 2300 RPM at approximately 66% BHP, a pilot can expect a true airspeed and fuel consumption of:
  - a. 158 mph / 12.2 gph
    b. 149 mph / 11.4 gph
    c. 154 mph / 12.4 gph
    d. 144 mph / 10.7 gph
- 29. With respect to leaning the mixture:
  - a. Peak EGT operation is not authorized except to establish peak for reference

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- b. Operation on the lean side of peak, or within 25° of peak, is not permitted
- c. If engine roughness occurs prior to peak EGT, use the onset of engine roughness as the reference point for leaning rather than peak EGT
- d. All of the above are good practices
- 30. An unexplained drop in manifold pressure and eventual engine roughness may result from the formation of carburetor ice. To clear the ice:
  - a. Apply full carburetor heat
- c. Descend to a warmer temperature
- b. Apply full power
- d. Both A & B
- 31. The emergency locator transmitter is located in the tail cone behind the baggage compartment bulkhead area. To check for inadvertent activation of the ELT,
  - a. Turn on the aircraft radio and monitor frequency 122.2
  - b. Monitor frequency 121.5 for the emergency tone
  - c. Call approach control and ask if they hear an ELT
  - d. Stand beside the airplane and listen for the emergency tone
- 32. During cruise flight you notice a rise in oil temperature and a loss of oil pressure. What should you suspect?
  - a. Engine overheating due to excessive leaning.
  - b. A magneto has failed causing delayed detonation
  - c. Reason to expect imminent engine failure (POH 3-8)
  - d. Reading errors due to instrumentation failure.