

Reference: Pilot's Operating Handbook for the Cessna 1978 Model 152

1. The maximum allowable gross weight for takeoff and landing is _____ lbs.
 - a. 1705
 - b. 1213
 - c. 1475
 - d. 1670

2. The total usable fuel with full standard-range tanks is _____ gallons.
 - a. 24
 - b. 24.5
 - c. 20
 - d. 25

3. The C152 has a flap-extension range of _____:
 - a. 10 - 40°
 - b. 0 - 40°
 - c. 0 - 30°
 - d. 10 - 30°

4. During engine run-up when a pilot checks the magnetos, lack of an RPM drop may mean:
 - a. Carburetor heat inoperative
 - b. Magnetos are OK
 - c. Faulty ground in the ignition system
 - d. Engine is not warm enough

5. Magneto check is made at _____ RPM, first checking ___ key position, ___ magneto.
 - a. 1700 / R / L
 - b. 1500 / R / R
 - c. 1600 / L / L
 - d. 1700 / L / R

6. You may not operate this aircraft with an oil level of less than:
 - a. 6 quarts
 - b. 4 quarts
 - c. 5 quarts
 - d. 3 quarts

7. The POH recommends _____ of flaps for an obstacle-clearance takeoff.
 - a. 0°
 - b. 20°
 - c. 15°
 - d. 10°

8. Final approach airspeeds for a normal landing with flaps up/flaps down are:
- a. 60-70 KIAS / 55-65 KIAS
 - b. 55-65 KIAS / 60-70 KIAS
 - c. 65-75 KIAS / 50-60 KIAS
 - d. 50-60 KIAS / 65-75 KIAS
9. The maximum published rate of climb at maximum gross weight, 4000-ft pressure altitude, and 40° C is:
- a. 265 ft/min
 - b. 500 ft/min
 - c. 630 ft/min
 - d. 445 ft/min
10. The C152 V_A (maneuvering speed) and V_{NO} (maximum structural cruising speed) at maximum gross weight in KIAS are:
- a. 85 / 141
 - b. 89 / 104
 - c. 104 / 111
 - d. 90 / 110
11. The best glide speed after an engine failure is:
- a. 55 KIAS, flaps down
 - b. 65 KIAS, flaps up
 - c. 60 KIAS, flaps up
 - d. 97 KIAS, flaps up
12. The maximum demonstrated crosswind velocity is:
- a. 12 knots
 - b. 20 knots
 - c. 13 knots
 - d. 18 knots
13. The C152 stall speed at maximum gross weight, forward CG, flaps up, 0° bank is _____. Under the same conditions at 60° of bank, stall speed is _____.
- a. 40 / 57 KIAS
 - b. 47 / 66 KIAS
 - c. 65 / 65 KIAS
 - d. 59 / 77 KIAS
14. The maximum flap-extension speed (V_{FE}) is:
- a. 149 KIAS
 - b. 35 KIAS
 - c. 85 KIAS
 - d. 111 KIAS

15. Total takeoff distance to clear a 50-foot obstacle at a gross weight of 1670 lbs, a pressure altitude of 4000 feet, and a temperature of 30° C is:
- a. 1920 feet b. 2020 feet c. 2250 feet d. 2080 feet
16. The vacuum system provides suction to operate which instruments?
- a. Artificial horizon and directional gyro c. Airspeed and directional gyro
b. Airspeed and turn coordinator d. Directional gyro and turn coordinator
17. At maximum gross weight, standard temperature, 6000-foot pressure altitude, and 2400 RPM, you can expect an airspeed of _____ and a fuel-consumption rate of _____:
- a. 96 KTAS & 5.7 gph c. 100 KTAS & 5.4 gph
b. 100 KTAS & 6.1 gph d. 71 KTAS & 6.1 gph
18. The C-152 is approved for intentional spins.
- a. True b. False
19. The total landing distance to clear a 50-foot obstacle at maximum gross weight, temperature 20° C, pressure altitude 2000 feet, with a 12-knot headwind on a dry, grass runway is:
- a. 1088 feet b. 1555 feet c. 1339 feet d. 1270 feet
20. Determine the weight and balance of this airplane using the charts in Section 6 of the Pilot's Operating Handbook.

	<u>Weight</u>	<u>Arm</u>	<u>Moment</u>	
Empty weight	1136	30.36	34500.0	
Fuel (standard, 15 gal)	_____	42.2	_____	The CG is _____ in. aft of datum.
Pilot & passenger	360	_____	_____	
Baggage area 1	25	_____	_____	
Totals	_____		_____	

- a. Within gross weight, aft CG c. Over gross weight, within CG
b. Within gross weight, within CG d. Within gross weight, forward CG

21. The electrical system consists of a ___ volt battery and a ___ volt alternator:
- a. 12 / 14 b. 24 / 28 c. 24 / 30 d. 24 / 24
22. The vacuum system indicates proper operation with:
- a. 4.6 - 5.4 in. on the suction gauge at engine run-up
b. 4.6 - 5.4 in. on the suction gauge with engine at idle
c. Ammeter reading positive
d. Ammeter reading neutral
23. The engine in the C152 is a:
- a. Lycoming O-200, 100 BHP c. Continental O-235, 100 BHP
b. Lycoming O-235-L2C, 110 BHP d. Continental O-220, 105 BHP
24. The brake system consists of:
- a. One hydraulic reservoir on the firewall mechanically attached to the pilot's pedals.
b. A single mechanical cable system from the pedals to the wheel brake assembly.
c. A single disc, hydraulically actuated brake on each main landing wheel connected to a master cylinder on each pilot rudder pedal.
d. A redundant arrangement with the left and right systems interconnected.
25. Static RPM should stabilize between approximately _____ RPM minimum and _____ RPM maximum.
- a. 2510 and 2550 c. 2280 and 2380
b. 2120 and 2424 d. 2330 and 2450