

T-41B

Normal Procedures Test

Rocky Mountain Flight Center



(Ref: TM 55-1510-212-10 Operator's Manual)

Please do not mark on booklet

1. The T-41B has _____ gallons of usable fuel in all flight conditions, an additional _____ gallons in level flight only, for a total of _____ gallons usable fuel.
 - a) 23, 2.5, 26
 - b) 49, 5, 54
 - c) 46, 5, 51
 - d) 46, 1, 52

2. Do not operate the engine with less than _____ quarts of oil.
 - a) 8
 - b) 7
 - c) 6
 - d) 5

3. Energy for the aircraft _____ - volt DC electric power is supplied by a _____ - ampere, driven alternator.
 - a) 14 volt, 60 amp
 - b) 12 volt, 25 amp
 - c) 28 volt, 5 amp
 - d) 28 volt, 38 amp

4. During normal engine start, the fuel boost pump switch should be in the _____ position and the throttle should be advanced to obtain a fuel flow of _____ to _____ GPH then reduced to 1 inch open.
 - a) High, 6, 8
 - b) Low, 8, 10
 - c) Low, 6, 8
 - d) High, 8, 10

5. During engine run up at 1800 RPM, the magneto check RPM drop should not exceed _____ RPM, or a _____ RPM differential.
 - a) 150, 25
 - b) 125, 25
 - c) 125, 50
 - d) 150, 50

6. During a normal takeoff, the nose wheel should be lifted at _____ MPH.
 - a) 60 MPH
 - b) 55 MPH
 - c) 45 MPH
 - d) 65 MPH

7. Perform minimum run or soft field takeoffs using _____ flaps.
 - a) 0 degrees
 - b) 10 degrees
 - c) 20 degrees
 - d) 30 degrees

8. Best angle of climb airspeed for obstacle clearance in the T-41B is:
 - a) 65 MPH
 - b) 75 MPH
 - c) 100 MPH
 - d) 95 MPH

9. Normal climb out speed is _____ MPH.
 - a) 110 MPH
 - b) 100 MPH
 - c) 90 MPH
 - d) 80 MPH

10. The first ten degrees of flaps may be extended at a maximum indicated airspeed of:
 - a) 110 MPH
 - b) 105 MPH
 - c) 100 MPH
 - d) 95 MPH

11. Maneuvering speed is the maximum speed at which abrupt control travel can be used and is _____ in the T-41B.
 - a) 56 – 100 MPH
 - b) 145 – 182 MPH
 - c) 182 MPH
 - d) 127 MPH

12. This aircraft is certified in both the normal and utility category. Spins are also approved with certain limitations.
 - a) True
 - b) False

13. The stall speed for the T-41B at maximum takeoff gross weight with flaps 20 degrees and 30 degrees bank is _____ MPH, and at 60 degrees bank is _____ MPH.
- a) 56, 79
 - b) 62, 82
 - c) 53, 75
 - d) 64, 91
14. At what maximum headwind and crosswind velocity are landings recommended in the T-41B?
- a) 20 KTS headwind, 10 KTS crosswind
 - b) 30 KTS headwind, 10 KTS crosswind
 - c) 30 KTS headwind, 15 KTS crosswind
 - d) 40 KTS headwind, 18 KTS crosswind
15. Takeoff distance at maximum gross weight, zero wind, over a 50 foot obstacle at a 6000 foot airport with OAT at 104 degrees Fahrenheit would be _____ with a ground roll of _____ feet.
- a) 1850, 1130
 - b) 2105, 1290
 - c) 2375, 1430
 - d) 1900, 1175
16. At 7,500 feet, standard day, a power setting of 2400 RPM and 18 inches manifold pressure will provide KTAS of _____, fuel flow of _____ GPH, and an endurance of _____ hours.
- a) 116, 9.7, 4.7
 - b) 112, 8.5, 5.0
 - c) 107, 8.5, 5.4
 - d) 107, 8.5, 4.5
17. Your maximum flight time with approximately one-hour fuel reserve, cruising at 7,500', with full throttle and 2400 RPM would be:
- a) 3.7 hours
 - b) 3.4 hours
 - c) 4.4 hours
 - d) 4.0 hours
18. You could expect _____ KTAS with _____ GPH at 10" MP – 2,500 RPM, lean mixture at 10,000 feet.
- a) 123, 10.5
 - b) 120, 10.2
 - c) 116, 9.4
 - d) 113, 9.0

19. The maximum gross weight landing distance at an airport with an altitude of 6000' while clearing a 50' obstacle, 8 KT headwind an OAT of 68 degrees Fahrenheit, would be:
- a) 470 ft
 - b) 812 ft
 - c) 1015 ft
 - d) 913.5 ft
20. Determine the weight and balance for the airplane for normal category operations using the tables in section III.

Basic empty weight	1534 lbs	Moment 567.1
51 gallons fuel		
Pilot	160 lbs	
Front PAX	50 lbs	
Rear PAX	260 lbs	
Baggage	90 lbs	

The weight and balance is:

- a) Within weight limits; Forward CG
- b) Within weight limits; Within the CG envelope
- c) Over max gross weight; Aft CG
- d) Over max gross weight; within the CG envelope