

NAME: _____

En route climb, flaps up		
Normal, sea level	_____	IAS
Normal, 10 000 ft	_____	IAS
Best rate of climb, sea level	_____	IAS
Best rate of climb, 10 000 ft	_____	IAS
Best angle of climb, sea level	_____	IAS
Best angle of climb, 10 000 ft	_____	IAS
Landing approach		
Normal, flaps up	_____	IAS
Normal, flaps 30°	_____	IAS
Short field, flaps 30°	_____	IAS
Balked landing		
Maximum power, flaps 20°	_____	IAS
Maneuvering speed and maximum recommended turbulent air penetration speed		
1670 lbs	_____	IAS
1500 lbs	_____	IAS
1350 lbs	_____	IAS
Maximum glide speed		
Flaps up	_____	IAS
Flaps down	_____	IAS
V_{SO}	_____	IAS
V_S	_____	IAS
$V_{FE, 10}$	_____	IAS
$V_{FE, 30}$	_____	IAS
V_{NO}	_____	IAS
V_{NE}	_____	IAS
Maximum window open speed	_____	IAS
Maximum demonstrated crosswind velocity	_____	KTS

Power plant limitations

Maximum RPM	_____	RPM
Maximum oil pressure	_____	PSI
Minimum oil pressure	_____	PSI

NORMAL PROCEDURES

Preflight

1. What should the position of the fuel shutoff be during the preflight?
2. What is the NORMAL START Procedure?
3. What is the time within which the OIL PRESSURE should show in the Summer and Winter?
4. What are the indications of overpriming or flooding?
5. What is the procedure to follow if the engine is flooded?
6. What can you do to make starting easier in cold weather? What precautions must you take prior to doing this?
7. If outside air temperatures are very cold, no oil temperature indication will be apparent on the temperature gauge. What is required to ascertain that the engine is ready for take-off?

8. What are the three magneto checks and what do they verify?
 - a. What should your next action be if you have an unsatisfactory magneto check?

9. What problem might occur after long periods of idling?

10. What is the procedure for an alternator check?

11. What should be done prior to take-off from fields above 3000ft Density Altitude/Elevation to ensure maximum power for take-off?

12. What is the MAXIMUM FLAP approved take-off?
 - a. If flaps are used for take-off, when should they be retracted?

 - b. What is the OBSTACLE clearance speed with FLAP 10?

13. When should the MIXTURE be LEANED?

14. What is the recommended SHORT FIELD approach technique?

15. Are crosswind landings with Flap 30 permitted?

16. What is the procedure for an OVERSHOOT/BALKED LANDING?

17. When should the CARB. HEAT be left ON/HOT?

18. What happens if the AIR INDUCTION FILTER gets blocked?

19. What is the fuel capacity (USEABLE/TOTAL)?

20. What are the indications of impending brake failure?

21. What should you do if one brake fails?

22. What VOLTAGE is the ELECTRICAL SYSTEM and BATTERY?

- a. What is the capacity of the ALTERNATOR?
- b. How many AMP/HOURS is in the BATTERY?

23. When should the AVIONICS MASTER (IF EQUIPPED) be in the OFF position?

24. How do you configure the controls for maximum cabin heat?

25. What will your actions be if the LOW VOLTAGE ANNUNCIATION illuminates in flight?

26. How long will a fully charged BATTERY maintain the EMERGENCY LOAD following an ALTERNATER FAILURE?

27. What should your actions be in the event of an ENGINE FIRE during start?

28. What is the ENGINE RESTART procedure following a failure in flight?
29. What should your actions be in the event of an ENGINE FIRE in flight?
30. What should your actions be in the event of an ELECTRICAL FIRE in flight?
31. What is the TIME, FUEL AND DISTANCE to climb from CZBB to an altitude of 8000ft when temperature at the airport is +25C and temperature at 8000ft is +9 C?
- a. What is the CRUISE RPM, TAS and FUEL FLOW for 65% POWER at 8000ft when OAT is ISA +10 C?
 - b. What is the take-off Ground Roll and Distance using SHORT FIELD technique under the following conditions?
 - i. SEA LEVEL – Standard Day
 - ii. 4000ft Pressure Altitude at +30 C
 - c. What is the landing Ground Roll and Distance using SHORT FIELD technique under the conditions given in (i.) and (ii.) above?
32. What is the STILL AIR RANGE at 8000ft using 70% power?