AIRCRAFT FLIGHT MANUAL EXAM

Student name	_Date
A/C type	Registration
Instructor signature	
Find the answers from aircraft flight manual. Que may be modified to correspond performance dat answer to a question, question shall be omitted.	•
1. Lift-off speed in take-off	
2. Speed for best rate of climb (Vy)	
3. Speed for steepest angle of climb (Vx)	
4. Speed for cruise climb	
5. Maximum speed for flap extension / Maximum speed with flaps fully deployed	
6. Maximum speed for landing gear extension	
7. Stall speed in landing configuration (V_{S0})	
8. Stall speed in clean configuration (V _{S1})	
9. Speed at threshold in landing configuration	
10. Maneuvering speed (V _A)	
11. Maximum permitted speed (V_{NE})	
12. Speed for best glide ratio (engine stopped, p	rop. windmilling)
13. The meaning of the white arc in airspeed ind	icator (ASI)?
14. Max./Min. speeds for green arc in ASI?	·
15. Engine type and power	·
16. What is true airspeed (TAS) at ft a with % maximum continuous power (A/c at MTOW, ca. 5000 ft altitude and 65% MCF	(MCP)?

17. Ref. question 16. Indicated airspeed is	·
18. What engine rpm (or rpm and manifold pressure) provides 65% MCP at 5000 ft altitude?	
19. Ref. Q16. Fuel consumption is	
20. Ref. Q16. Specific fuel consumption (nm/l) is	
21. Ref. Q16. Your a/c is old and its cruise speed is 10% lower and fuel consumption 10% higher than with a new a/c. What is your specific fuel consumption (nm/l)?	
22. Maximum fuel capacity (fuel/usable fuel)	
23. How much fuel you may take, if every seat is occupied by a standard-weight adult?	
24. How many adults you may take, if your fuel tanks are full	
25. Ref. Q23. Calculate center of gravity (CG) position	
26. Ref. Q16. What is your maximum endurance (without 45 min reserve fuel)	
27. Describe a/c fuel sampling before flight	
28. Minimum oil quantity before flight	
29. Maximum crosswind component for t/o and landing	
30. Maximum weight in cargo/luggage bay	
31. Take-off distance to 15 m / 50 ft obstacle. Pressure altitude ft, OAT°C, wind calm, dry short grass runway	
32. Ref. Q31. How long your runway should be, when take-off distance required (TODR) should not exceed 80% of take-off distance available (TODA)?	
33. What is your landing distance from 15 m / 50 ft obstacle? (conditions as in Q31)	
34. Ref. Q33. How long your runway should be, when	
landing distance required (LDR) may not exceed 70% of landing distance available (LDA)?	

36. Aircraft belongs to		category
37. Aircraft is approved for ope	erations under	flight rules
38. To ensure airworthiness, y	ou should check the fo	ollowing documents before flight
39. When checking documents What do these mean?	s, you notice the follov	ving markings in a/c inspection report.
8. Remarks and action required	To be performed	Signature / date
MEL lacks requirements for cargo equipment. Contact aviation authority	B. 12.8.2011	
2. Right main gear door hinge loose. Rivets missing.	А	
40. Landing gear is fixed / mai is an emergency procedure fo		rical / hydraulic. If it is retractable, wha
41. Engine run-up rpm and wh permissible rpm drop / differer		netos
42. Engine warm-up rpm		
43. Conditions for mixture lear	ning during flight	
44. Permitted flight maneuvres	S	

45. You experience engine failure in initial climb (ca. 50 ft) Describe correct	action
46. You experience engine failure in cruise flight. Describe correct action	
47. You experience engine fire in cruise flight. Describe correct action	