

DA 42 L360 AIRCRAFT WRITTEN TEST

Student Name:

Flight Instructor:

Date:

Aircraft Basic Familiarization & Limitations

1) Aircraft Dimensions:

- Wingspan-
- Length -
- Height -

2) List the following speeds for this aircraft-

- | | |
|--------------------------------|------------------------|
| V _{SO} | V _{lo} |
| V _S | V _{Ie} |
| V _{mc(a)} | V _{APP} |
| V _{Xse} | V _{LND} |
| V _{yse} | V _{NO} |
| V _R | V _{NE} |
| V _X | Normal Pattern: |
| V _Y |/...../..... |
| V _A < ___ lbs..... | Flapless Pattern: |
| V _A > ___ lbs |/...../..... |

- 3) What is the engine make and model?
- 4) What is the maximum horsepower rating of the engines?
- 5) What are the takeoff and maximum continuous power (MCP) limitations?
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- 6) What type of engine induction system does the aircraft have?
- 7) What is the maximum oil quantity?
- 8) What is the minimum oil quantity?
- 9) What is the minimum oil pressure?

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- 29) What is the function of the variable elevator stop?
- 30) How are the wing flaps controlled and actuated?
- 31) How many control axes have trim?
- 32) How are the trim(s) actuated?
- 33) Describe the landing gear system, how is it controlled and actuated?
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- 34) Describe the electrical system in the DA42-L360.
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- 35) When is the emergency switch used, and what does it power?
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- 36) How is the gear horn system tested?
- 37) How is the parking brake actuated?
- 38) What type of propeller is installed on the aircraft?
- 39) Is the aircraft equipped with unfeathering accumulators?
- 40) How is heating and defrosting provided for the aircraft?
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- 41) What is the rating of the aircrafts battery?
- 42) What is the rating of the electrical system?
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43) How many electrical buses are in the aircraft?

44) What type of stall warning system is installed?

45) What is the minimum attitude for autopilot operation for departure and landing?

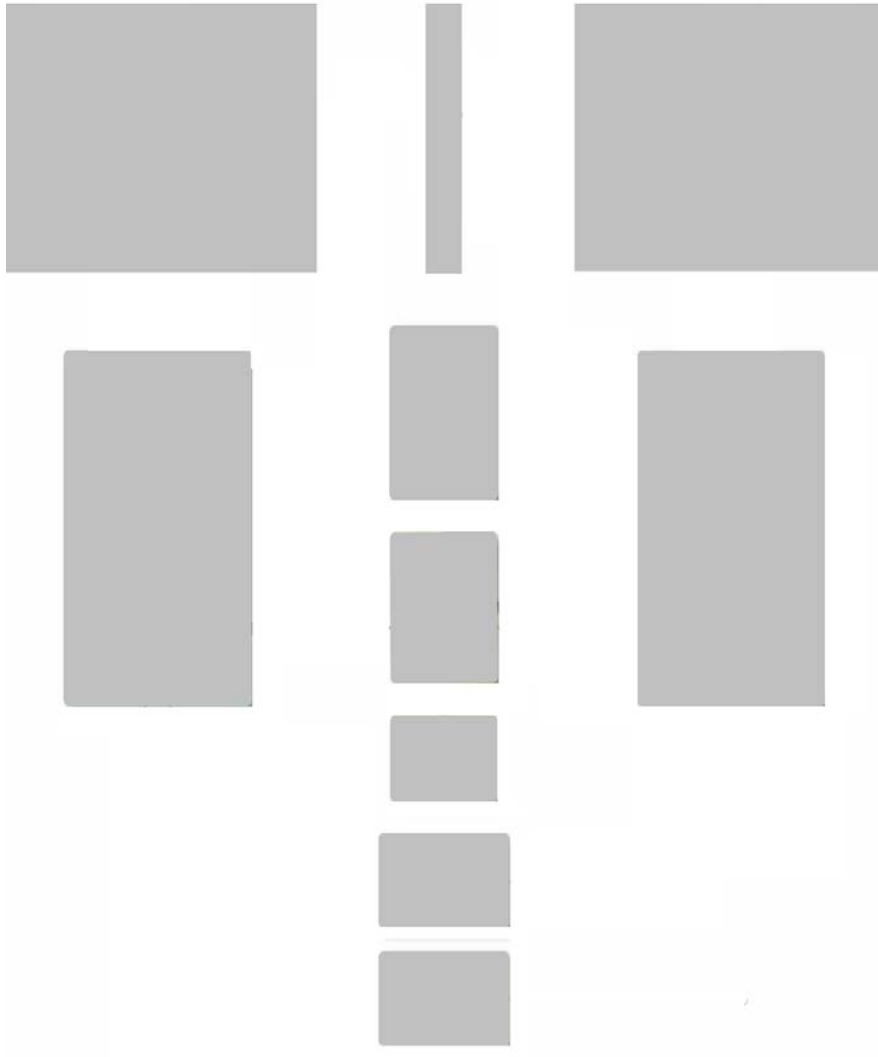
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G1000

46) Complete the basic G1000 system architecture diagram including flow paths.

G1000 Basic Diagram



47) If the MFD fails will COMM 2 still be usable?

48) If the OAT fails what will be affected?

49) Are the volumes for COMM 1 and COMM 2 connected? For NAV 1 and NAV 2?
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50) The distance shown in the black Bearing (BRG) boxes shows slant range DME distance? True or False?

Emergency and Abnormal Procedures

1) What is the procedure for a rejected takeoff?

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2) What is the procedure for unfeather/restarting and engine in flight (above 1500 AGL)?

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3) What procedure do you follow if you have an engine failure on takeoff following gear retraction?

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4) What procedure do you follow for manual extension of the landing gear?

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5) What procedure do you follow if you have an engine fire in flight?

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6) What procedure do you follow if you have an electrical fire in flight?

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7) What are the indications and the procedure for induction system icing in this aircraft?

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8) What is the procedure for an alternator warning light illumination?

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9) What is the procedure for a propeller overspeed?

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10) What is the procedure for an emergency descent?

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11) What is the procedure for a low fuel pressure indication?

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12) Illumination of the electric fuel pump light indicates what?

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13) What is the procedure for an autopilot trim runaway?

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