

Miami Gliders  
Pre-Solo Written Test  
LET – Super Blanik L-23 - Glider

Full Name: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone # (s): Home \_\_\_\_\_ Cell: \_\_\_\_\_

Certificates/Ratings held: \_\_\_\_\_

Pilot Certificate #: \_\_\_\_\_

Email: \_\_\_\_\_

Medical Statement:

I \_\_\_\_\_ certify that I have no known medical problems or defects which make me unable to safely pilot a glider. In the event that my health status changes or comes into question, I will notify Unusual Attitudes; DBA "Miami Gliders" immediately and evaluate my status as a renter/student.

Pilot's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Emergency Contact Information:**

Name \_\_\_\_\_ Phone # \_\_\_\_\_

This pre-solo written test is required by FAR 61.87 and was administered and reviewed by a CFGI.

CFI Name \_\_\_\_\_ Date \_\_\_\_\_

CFI Signature \_\_\_\_\_ Cert# \_\_\_\_\_ Exp: \_\_\_\_\_

This test will be filed with our student records at Miami Gliders at a location of our choosing.

Materials you will need to complete test:

Glider Flying Handbook

FARAIM (current)

Miami Sectional or Miami Terminal Area Chart (TAC)

Blanik L23 Manual

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**Pilot**

1. What document(s) must you have on your person as a student pilot while flying a glider?
  
2. Is it legal for you to carry passengers as a student pilot?
  
3. Who is responsible for the airworthiness of the glider?

**Preflight Inspection**

4. What documents are required to be in the glider and where are they located?
  
5. Are you required to conduct a preflight inspection prior to your first flight?
  
6. Describe a “positive control check”.
  
7. How do you lift the front glider canopy?

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**Weight and Balance (Blanik L23)**

8. What is a ballast weight, where is it installed and how much does it weigh?
9. What is the basic empty weight?
10. What is the MAX useful load?
11. What is the MAX gross weight?
12. What is the MAX front seat pilot weight?
13. What is the MIN front seat pilot weight (solo) with & without ballast?
14. Where is the weight and balance information located?

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**General Operating Procedures**

15. How do you move & rotate the glider without a ground vehicle?

16. How do you move the glider with a ground vehicle?

17. What is the MIN length of the **ground vehicle towing rope** when using a vehicle?

18. What is the recommended approximate length of the **aero tow rope**?

19. What do the regulations require for MAX & MIN strength of the aero tow rope?

20. What is the pre-takeoff checklist?

C \_\_\_\_\_  
B \_\_\_\_\_  
S \_\_\_\_\_  
I \_\_\_\_\_  
F \_\_\_\_\_  
T \_\_\_\_\_  
C \_\_\_\_\_  
B \_\_\_\_\_  
E \_\_\_\_\_

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21. Describe the procedure or signals for letting the wing runner and towpilot know that you are ready for takeoff. (3 steps)
22. During the takeoff roll, you notice the tow rope becomes slack and the tow plane decelerates and moves left of the runway. What immediate action do you take in the glider?
23. During takeoff the tow plane begins “fanning” its rudder left and right. What immediate action do you take in the glider?
24. During the aerotow the tow plane begins “rocking” (other than normal turbulence) its wings. What immediate action do you take in the glider?
25. What is the emergency procedure for a rope break above and below 200 ft?
26. Describe the visual references you use to maintain an ideal tow position, wings level and turns, during the aerotow.
27. What immediate action do you take if you lose sight of the tow plane during the aerotow?

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28. How do you remove slack rope during the aerotow? (2 ways)
  
  
  
  
  
  
  
  
  
  
29. What action do you take if excessive slack rope is encountered during the aerotow?
  
  
  
  
  
  
  
  
  
  
30. Describe our aerotow departure pattern at Homestead General Airport.
  
  
  
  
  
  
  
  
  
  
31. What action do you take just prior to releasing from the tow plane?
  
  
  
  
  
  
  
  
  
  
32. Which direction does the tow plane and the glider turn after rope release?
  
  
  
  
  
  
  
  
  
  
33. What are the first two things you must look for after rope release?
  
  
  
  
  
  
  
  
  
  
34. What action do you take if you're unable to release from the tow plane?
  
  
  
  
  
  
  
  
  
  
35. Describe how you would land with the tow rope still attached to the glider?
  
  
  
  
  
  
  
  
  
  
36. How do you apply the wheel brake on the L-23?
  
  
  
  
  
  
  
  
  
  
37. What radio frequency is used at Homestead General Airport (X51) to announce aircraft intentions?

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38. Name some landmarks that help you locate Homestead General Airport (X51).
  
39. Name & describe the controlled airspace just east of Homestead General Airport.
  
40. Name & describe (using landmarks) the controlled airspace approx. 9NM NE of Homestead General Airport (X51).
  
41. Where and how far is Richard's Field from Homestead General? (review special considerations w/ CFG)
  
42. When faced w/ an off-field landing, what are the 3 most important considerations?
  
43. Describe several ways of determining wind direction on the ground and in the air.
  
44. What is a prudent altitude to perform your pre-landing checklist?
  
45. Describe our visual references for entering the traffic pattern.

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46. What is the pre-landing checklist?

U \_\_\_\_\_  
S \_\_\_\_\_  
T \_\_\_\_\_  
A \_\_\_\_\_  
L \_\_\_\_\_  
L \_\_\_\_\_

47. What are the traffic pattern altitudes and directions for *all runways* and *all traffic* at Homestead General?

48. Describe the landing attitude and position of airbrakes at touchdown.

49. What is the maximum demonstrated crosswind component for the L-23 Super Blanik?

50. Describe the techniques used in crosswind takeoffs and landings.

51. What might you expect after touchdown in a crosswind with respect to directional control and how would you handle the situation?

52. What is your primary responsibility as PIC?



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**Glider Performance (Blanik L-23)**

53. What is the *typical* aerotow speed?

54. What is the MAX aerotow speed?

55. What is Maneuvering speed ( $V_a$ ) and why is it important?

56. What is Never-Exceed Speed ( $V_{ne}$ ) and why is it important?

57. What is the function of the yaw string?

58. What is the definition of a stall?

59. What are some indications of a stall?

60. What control inputs effect recovery from an imminent, full & turning stall (discuss w/ CFIG)?

61. What causes a spin and describe a spin recovery?

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62. What is “minimum sink” speed and what is the effect of flying at that speed?

63. What is “maximum L/D” speed and what is the effect of flying at that speed?

64. What speed range would you fly when thermalling?

65. What speed would you fly when traveling between thermals?

66. What action(s) would you take if you encounter “sink” (descending air).

67. How do you determine what speed to fly in the traffic pattern?

68. Describe your traffic pattern with respect to ground speed and wind correction if your landing on rwy 27 and the wind is SW at 15 knots?

69. How can you maintain approach speed without looking at the airspeed indicator?

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70. What happens to your *indicated airspeed* during a slip?

71. What does TLAR mean and when do you use it?

**Weather**

72. Simply, what causes thermals to develop? (Hint: One word)

73. What are some visual indications of a thermal?

74. What is a sea breeze front?

75. How can you be “trapped” by a sea breeze front?

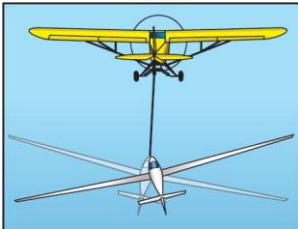
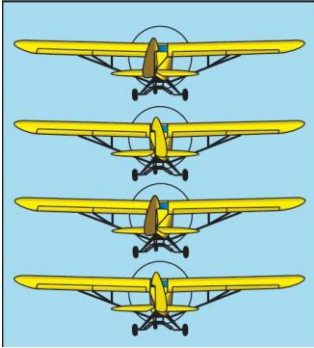
76. Explain the visual indications & hazards associated w/ thunderstorms? What must you do if you encounter these conditions?

77. In respect to aerodynamics. How is the gliders performance affected by rain?

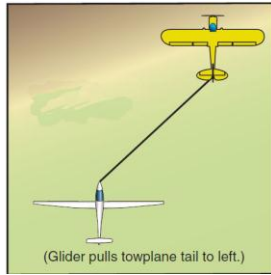
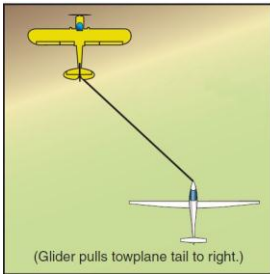
78. Who makes a glider fly **safely & precisely**?

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**Fill in the blank for each SSA/SSF Visual Signal**



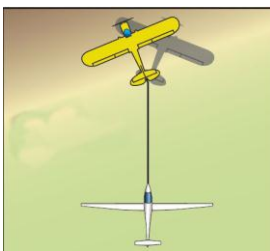
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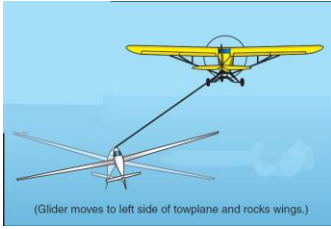


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**END**