

AVEL FLIGHT SCHOOL PRESOLO KNOWLEDGE TEST

(These test questions are an excerpt from pages 60, 61, 62 & 63 of the Gleim Private Pilot Syllabus, Fifth Edition)

Airplane Make/ Model:	
Student Name:	Student Signature:
Instructor Name:	Instructor Cert No: Signature:

1) List the airspeeds and their definitions for your airplane

V_{so} –

V_{s1} –

V_r –

V_x –

V_y –

V_{fe} –

V_a –

V_{no} –

V_{ne} –

2) The maximum gross weight for your airplane is _____ lb

3) The maximum takeoff weight for your airplane is _____ lb

4) Fuel: Maximum capacity _____ gal. of which _____ gal. is usable
Minimum to start a solo flight _____ gal.

Grade:

Color:

5) Oil: Maximum capacity _____ qt.

Minimum to start a solo flight:

Grade :

6) Compute the location of the center of gravity (CG) for a solo flight with a full fuel in your airplane. Is the CG within limits?

7) What is the takeoff ground roll and the distance over a 50 ft. obstacle for your airplane at your airport with full fuel, a temperature of 29 degree C, 5kt headwind, and an altimeter setting of 29.64?

8) What is the ground roll and total landing distance over a 50-ft obstacle for your airplane at your airport with $\frac{3}{4}$ fuel, a temperature of 32 degree C, calm wind, and an altimeter setting of 30.10?

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9) What are the indications of carburetor icing? When is the carburetor recommended to be used in your airplane?

10) What are the radio frequencies used at your airport?

Clearance Delivery –
ATIS –
Ground –
Tower –
Approach/Departure –
CTAF –
UNICOM –
FSS –

11) At your airport

- a) What runways are available?
- b) What is the direction of the traffic pattern for each runway?

- c) What is the traffic pattern altitude?
- d) In what class of airspace is the airport located?

12) How do you enter and depart the traffic pattern at your airport?

13) What radio communication procedures are required at your airport?

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14) Explain the procedures you would use to land at your airport if the communication radio(s) failed.

15) List the meaning of the following ATC light signals

	In Flight	On Surface
Steady Green		
Flashing Green		
Steady Red		
Flashing Red		
Flashing White		
Alternating red and green		

16) What airplane certificates and documents must be on board the aircraft prior to every flight?

17) What personal documents and endorsements must you have before beginning a solo flight?

18) Who is directly responsible and is the final authority as to the operation of your airplane when you are flying solo?

19) You may not fly as a pilot within _____ hours after the consumption of an alcoholic beverage or with _____ by weight or more alcohol in the blood.

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- 20) Explain the regulatory preflight action requirements.
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- 21) Explain the use of safety belts and shoulder harnesses while flying solo.
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- 22) When aircraft are approaching each other head on, or nearly so, what action should be taken?
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- 23) Except for takeoff or landing, at what minimum safe altitudes should you operate your airplane?
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- 24) Explain the altimeter setting procedures.
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- 25) When practicing steep turns, slow flight, power-on stalls, and power-off stalls, you should select an altitude that allows the maneuver to be completed no lower than _____
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- 26) Explain the go-around procedure in your airplane. When would you use the go-around procedures?

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27) The best glide airspeed for your airplane (at maximum gross weight) is _____

a) What airplane configuration is specific to obtain the maximum glide?

28) Explain the actions you would take if the airplane engine failed in the following situations:

a) Right after liftoff –

b) During takeoff climb at an altitude of 100 ft. AGL –

c) En route –

29) Explain the recommended use of flaps of takeoff in your airplane

30) For a student pilot, what are the minimum visibility requirements?

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31) For a student pilot, what are the restrictions to flight above clouds?

32) For a student pilot, what are the limitations of carrying passengers?

33) What are the day-VFR fuel requirements?

End of Exam