

## AVEL FLIGHT SCHOOL FLIGHT REVIEW KNOWLEDGE TEST

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

### Aircraft Familiarity and Performance

- 1) List the airspeeds and their definitions for your airplane

V<sub>so</sub> –

V<sub>s1</sub> –

V<sub>r</sub> –

V<sub>x</sub> –

V<sub>y</sub> –

V<sub>fe</sub> –

V<sub>a</sub> –

V<sub>no</sub> –

V<sub>ne</sub> –

- 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 \_\_\_\_\_ qt.

Grade \_\_\_\_\_

- 6) Compute the location of the center of gravity (CG) for a solo flight with full fuel in your airplane. Is the CG within limits? (use aircraft POH and a separate sheet of paper for weight and balance computation)

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- 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? (use aircraft POH and a separate sheet of paper for computation)
- 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? (use aircraft POH and a separate sheet of paper for computation)

### Airport procedures

- 9) What are the radio frequencies used at your airport?

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

- 10) At your airport:

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

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c) What is the traffic pattern altitude for each available runway?

d) In what class of airspace is the airport located?

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

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

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

14) 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		

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### **Abnormal Procedures**

- 15) What are the indications of carburetor icing? When is the carburetor recommended to be used in your airplane?
- 16) What actions will you take if you have an abnormal oil pressure reading?
- 17) What actions will you take if you have an abnormal oil temperature reading?
- 18) What actions will you take if you have engine fire on the ground and in the air?
- 19) What actions will you take if you have cockpit fire or smoke on the ground and in the air?

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20) 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 –

### **Normal procedures**

21) Explain the recommended use of flaps of takeoff in your airplane.

22) Explain the use of safety belts and shoulder harnesses on the ground and while flying.

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23) When aircraft are approaching each other head on, or nearly so, what action should be taken?

24) Except for takeoff or landing, at what minimum safe altitudes should you operate your airplane

25) Explain the altimeter setting procedures.

26) 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 \_\_\_\_\_.

27) Explain the go-around procedure in your airplane. When would you use the go-around procedures?

28) The best glide airspeed for your airplane (at maximum gross weight) is \_\_\_\_\_  
a) What airplane configuration is specific to obtain the maximum glide?

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### **Regulations**

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

30) What personal documents and endorsements must you have before beginning a flight as PIC?

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

32) 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.

33) Explain the regulatory preflight action requirements.

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34) For a Private Pilot, what are the minimum visibility requirements?

35) What are the restrictions to flight above clouds?

36) What are the day and night-VFR fuel requirements?

37) What is a TFR, how would you know about it and can you fly into a TFR?

### **End of Exam**

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*Instructor must discuss airspace, relevant regulations and any other additional topics at the discretion of the instructor that may be relevant to the applicant / pilot before offering comments.*

Instructor Comments: