

# PRE-SOLO WRITTEN TEST

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

1. What type of airspace is Twin Oaks (7S3) in?

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2. What type of airspace is Hillsboro (HIO) in?

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3. What type of airspace is McMinnville (MMV) in?

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4. Just after takeoff from 7S3, you wish to contact the nearest FSS. What frequency do you use and who are you talking to?

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5. Will the aircraft's fuel gauges work in the event of total electrical failure or with the master switch in the off position?

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6. While out locally practicing maneuvers, the aircraft's alternator fails. It was working when you departed and you have been out for approximately 45 minutes. What is your course of action from this point?

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7. Continuing from question 6, can you count on your flaps working when it comes time to land?

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8. What are the following V Speeds for the aircraft you intend to solo?

V <sub>x</sub>		V <sub>so</sub>	
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Vy		Vs1	
Vr		Vno	
Va		Vne	
Vfe		Best Glide	

9. Briefly explain how a carburetor works? Why do we use carburetor heat?

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10. How does carburetor heat work? And is the air going into the carburetor and eventually into the engine filtered when carburetor heat is being used?

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11. While out practicing, you spot an aircraft coming at you head-on. What is your reaction? What do you expect the pilot in the other aircraft to do once he sees you?

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12. If a power failure occurs on takeoff, your first action should be to?

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13. How does temperature affect your takeoff roll?

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14. On final approach you add power to extend your glide. The nose can be expected to? Unless you intervene, what will your airspeed do?

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15. What are wing tip vortices and how do you avoid them?

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16. What endorsements are required for solo flight? What documents must be in your possession?

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17. What must be done prior to entering class D airspace?

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18. What is the minimum fuel reserve for day VFR?

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19. What is the proper procedure for an aborted landing with full flaps?

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20. During engine run up, what is the maximum rpm drop allowable for your aircraft?

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21. What documents must be in the airplane at all times?

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22. What causes a stall to occur? A spin?

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23. What happens to the stall speed ( $V_s$ ) during a turn?

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24. During what flight operations is a stall most likely to occur?

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25. What visual checkpoints are near K7S3, and KMMV?

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26. With full tanks your maximum time aloft in your aircraft is?

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27. Any other questions you have you want to ask your instructor?

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