

# ***STUDENT PILOT PRE-SOLO WRITTEN TEST***

Name- \_\_\_\_\_ Date- \_\_\_\_\_

1. What is the minimum age for solo flight?

\_\_\_\_\_

2. What class medical must you obtain before solo flight?

\_\_\_\_\_

3. How long is that medical valid for?

\_\_\_\_\_

4. Can you carry passengers as a student pilot?

\_\_\_\_\_

5. Can you fly into class B airspace?

\_\_\_\_\_

6. Are you allowed to fly into clouds?

\_\_\_\_\_

7. In the event that you do enter a cloud, what should you do?

\_\_\_\_\_

8. What items must you hold in your possession to operate as PIC on an aircraft?

\_\_\_\_\_

9. What documents must be onboard the aircraft before taking flight?

\_\_\_\_\_

10. What aircraft equipment is required for day VFR flight?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## Aircraft Systems, Operation, Performance and Limitations

11. What is the fuel type for the aircraft you fly?

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12. How much fuel does your aircraft carry?

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13. Approximately how much fuel does the engine use per hour?

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14. What color is that fuel?

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15. When sumping the fuel from the fuel tanks, the color is clear. What should you do?

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16. What type of oil is used in the engine of your aircraft?

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17. What is the minimum oil capacity for the engine on your aircraft? Maximum?

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18. How is the engine of your aircraft cooled?

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19. List the following aircraft speeds- (meaning and number)

V<sub>x</sub>-

V<sub>a</sub>-

V<sub>y</sub>-

V<sub>no</sub>-

V<sub>s</sub>-

V<sub>ne</sub>-

V<sub>so</sub>-

V<sub>fe</sub>-

20. What is a stall and how do you recover from them?

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21. How should you recover from a stall in a landing configuration?

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22. When stalling in uncoordinated flight, there is a chance that the aircraft may enter an aerodynamic spin. How should you recover from a spin?

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23. What is maneuvering speed and why is it important?

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24. What is the approach speed of the aircraft you fly?

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25. What are the four factors that result in left turning tendency on climb

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26. How do you compensate for the left turning tendencies?

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27. What is the maximum takeoff weight for the aircraft you fly?

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28. What are the flight characteristics of an aircraft with a forward CG?

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29. What are the flight characteristics of an aircraft with an Aft CG?

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30. Does maneuvering speed increase or decrease with increased weight?

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31. How does weight affect an aircraft's stall speed?

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32. For any performance related calculations, what should you refer to?

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33. How fast should you taxi?

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34. On takeoff, what airspeed do you rotate at?

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35. Describe a short field approach to landing? Soft field?

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36. Why do we do a magneto check before shutting off the aircraft's engine?

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37. Describe the inflight engine failure procedure?

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38. In the event of an engine fire, what procedure should you follow?

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39. Describe the procedure for an inflight electrical failure?

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## **Airport and Airspace**

40. What are the vertical limits of the following types of airspace?

A-

D-

B-

E-

C-

G-

41. What type of airspace is KORL in?

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42. What airspace overlies the airspace of KORL?

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43. What altitude does the floor of the overlying airspace begin?

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44. What are the VFR minimums for the following airspace?

A-

D-

B-

E-

C-

G-

45. What is the squawk (transponder) code for VFR flight?

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46. What should you squawk in the event of an emergency? Loss of communications?

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47. When is an altitude encoding transponder required?

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48. List the following frequencies-

ATIS/AWOS-

Emergency-

Ground-

Approach-

Tower-