

# Pre-Solo Written Exam

**September 2022**

## Instructions

Complete the following exam using the same sheet. This exam contains questions of FAA Parts 61, 91, AFI 34-117, Aircraft Systems, and Local Procedures. Do not assume information not specifically provided in the questions. Each numbered question is worth 2 points, if any part of an answer is wrong, the question is wrong! Passing score is 80%.

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Student's Name \_\_\_\_\_ Instructor Name \_\_\_\_\_

Grade \_\_\_\_\_ Date \_\_\_\_\_

I have administered and reviewed this written exam as required by FAR 61.87 (b) and find the student's aeronautical knowledge satisfactory for solo flight.

IP \_\_\_\_\_ Cert. # \_\_\_\_\_ Date \_\_\_\_\_

### THE FOLLOWING QUESTIONS ARE COVERED IN FAR PART 1

1. Give an example of the following terms. (FAR 1.1)

A. Category \_\_\_\_\_

B. Class \_\_\_\_\_

2. Define the term pilotage. (FAR 1.1)

A. \_\_\_\_\_

3. Define the following terms. (FAR 1.1)

A. Va \_\_\_\_\_

B. Vfe \_\_\_\_\_

C. Vne \_\_\_\_\_

D. Vr \_\_\_\_\_

E. Vs \_\_\_\_\_

F. Vso \_\_\_\_\_

G. Vx \_\_\_\_\_

**THE FOLLOWING QUESTIONS ARE COVERED IN FAR PART 61**

4. What three documents must a pilot have in their possession while exercising the privileges of a pilot certificate? (61.3 a / c)

A. \_\_\_\_\_ B. \_\_\_\_\_

C. \_\_\_\_\_

5. What are the limitations on student pilots while operating an aircraft in solo flight? (61.87n)

A.

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6. What general limitations are placed on a student pilot while acting as pilot in command? (61.89)

A.

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B.

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C.

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D.

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E.

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F.

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G.

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H.

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I.

**THE FOLLOWING QUESTIONS ARE COVERED IN FAR PART 91**

7. Who is responsible for the operation of the aircraft? (FAR 91.3)

A.

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8. Who is responsible for determining whether an aircraft is in condition for a safe flight? (91.7)

A.

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9. What action is required if the PIC discovers an un-airworthy condition? (FAR 91.7)

A.

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10. In the use of Alcohol or drugs, no person may act as a crewmember of a civil aircraft under what conditions? (91.17)

A.

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B.

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C.

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D.

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11. A PIC shall, before beginning a flight, become familiar all available information concerning that flight. This information must include, for a flight not in the vicinity of an airport. (91.103)

A. \_\_\_\_\_

B. \_\_\_\_\_

C. \_\_\_\_\_

D. \_\_\_\_\_

E. \_\_\_\_\_

F. \_\_\_\_\_

G. \_\_\_\_\_

12. Who has the right-of-way when two aircraft are on final approach to a landing? (FAR91.113)

A.

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13. What are the minimum safe altitudes? (FAR 91.119)

Anywhere

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Over congested areas

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Other than congested areas

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14. What are the dimensions of class D airspace, the direction of standard traffic pattern and communication requirements? (FAR 91.129 and reference to 91.126 and 91.127)

A.

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B.

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C.

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15. What are the weather requirements for operations in Class C airspace? (91.155)

A.

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B.

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16. What are the weather requirements for operations in Class D airspace? (91.155)

A.

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B.

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17. What are the fuel reserve requirements for a day VFR flight and a night VFR flight? (91.151)

A. Day \_\_\_\_\_

B. Night \_\_\_\_\_

18. What are the VFR cruising altitudes and at what altitudes do they apply? (91.159)

A.

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19. What are the minimum equipment and instrument requirements for a day VFR flight? (91.205b)

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_

**THE FOLLOWING QUESTIONS ARE COVERED IN THE AERONAUTICAL INFORMATION MANUAL (AIM)**

20. Interpret the sign in figure 2-3-31 and 2-3-33 (AIM Ch. 2 sec.3 Para.9)

A.

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B.

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21. Describe Class C airspace: Dimensions, pilot requirements, equipment, communication and airspeed limit (AIM 3-2-4)

A.

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B.

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C.

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D.

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E.

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22. Describe Class D airspace: Dimensions, pilot requirements, equipment, communication and airspeed limit? (AIM 3-2-5)

A.

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B.

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C.

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D.

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23. Name the closed pattern legs? (AIM 4-3-2)

A. \_\_\_\_\_ B. \_\_\_\_\_ C. \_\_\_\_\_

D. \_\_\_\_\_ E. \_\_\_\_\_ F. \_\_\_\_\_

24. At what point do you turn crosswind in a civilian airfield? (AIM 4-3-3 and figure 4-3-2)

A.

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25. How can a pilot obtain radar assistance when in a difficult situation? (AIM 6-2-1)

A.

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**THE FOLLOWING QUESTIONS ARE COVERED IN AFMAN 34-117, 34-101 (AERO CLUB SOP)**

26. When is "student" considered a "no show" for a scheduled flight and what charges apply?

(1.10.1)

A. \_\_\_\_\_

B. \_\_\_\_\_

27. What are the wind limitations for solo student pilot? (4.9)

A. \_\_\_\_\_ B. \_\_\_\_\_

C. \_\_\_\_\_

28. What is the restriction on flying with an open discrepancy? (6.2)

A.

\_\_\_\_\_

29. What is the flight restriction for a solo student pilot with cumulonimbus cloud formations (thunderstorms) within 15nm of the academy airfield? (AFI 34-117, A2.4.2.7)

A.

\_\_\_\_\_

30. All aero club flights must flight plan for a fuel reserve of \_\_\_\_\_ hours at cruise power.

(34-101, 10.46.1)

**THE FOLLOWING QUESTIONS ARE COVERED IN THE AIRCRAFT PILOT OPERATING HANDBOOK USE THE POH FOR A CESSNA 172 P MODLE (6601K)**

31. Describe the engine of the Cessna 172. (POH 1-3, STC Paperwork in Dispatch Binder)

A.

\_\_\_\_\_

32. What are the accepted fuel grades that can be used in the Cessna 172?

A.

\_\_\_\_\_

33. Where is the Reference Datum that is used for weight and Balance computations? (POH 6-4)

A.

\_\_\_\_\_

34. How are the flight controls operated? (POH 7-8)

A.

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35. What type of flaps does the Cessna 172 use; how are they operated? (POH 7-10)

A. \_\_\_\_\_

B. \_\_\_\_\_

36. How are the brakes actuated? (POH 7-10)

A.

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37. How is fuel delivered to the engine? (POH 7-20)

A.

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38. Describe the north departure when taking off on 16L? Include checkpoints and altitudes. (Inflight Guide)

A.

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