

Solo Navigation Exam

September 2022

Instructions

This is a closed book exam and contains questions from 14 CFR Parts 61 and 91, the Aeronautical Information Manual (AIM), Aero Club SOP, and the excerpt from the Denver Sectional. Do not assume information not specifically provided in the questions.

1. As a student pilot, do you need to carry your logbook on a solo cross-country?
 - a. _____
2. From what FAR may the PIC deviate from to handle an in-flight emergency that requires immediate action?
 - a. _____
3. How long can you operate above 12,500' without supplemental oxygen and at what altitude must you use supplemental oxygen?
 - a. _____
 - b. _____
4. True course + or – magnetic variation equals?
 - a. _____
5. Reference Figure 5 – What is the magenta dashed line?
 - a. _____
6. When must a VFR flight plan be filed? Who do you file with?
 - a. _____
 - b. _____
7. If you forget to close your VFR flight plan after landing, how soon after your planned ETA has elapsed will Flight Service start looking for you?
 - a. _____
8. What is the name of the nearest FSS? Name two services they provide.
 - a. _____
 - b. _____

9. When should the heading indicator be set to the magnetic compass, and how often should it be rechecked?

a. _____

b. _____

10. When determining your position relative to a VOR, should you use a TO or FROM indication?

a. _____

11. Reference Figure 11 – What does the airport symbol (magenta tick marks) at Springs East indicate, as opposed to the airport symbol at USAF Bullseye?

a. _____

12. Reference Figure 12 – What do the two magenta numbers (102|75) indicate?

a. _____

13. Reference Figure 13 – What does the magenta flag indicate and what is the name?

a. _____

b. _____

14. Reference Figure 14 – What type of airspace is indicated in blue?

a. _____

15. Under what circumstances can you enter that airspace?

a. _____

16. Reference Figure 16 – What do the two magenta symbols on either side of the airport indicate?

a. _____

b. _____

17. Reference Figure 17 – What does the boxed-in symbol indicate is located on the ground?

a. _____

18. Reference Figure 18 – At Meadow Lake Airport, what class of airspace are you in at the surface? What about at pattern altitude?

a. _____

b. _____

19. Reference Figure 19 – What are the minimum safe altitudes (AGL) in the vicinity of the Wind Turbine Farm?

a. _____

b. _____

20. What is the significance of a magenta colored airport symbol on a sectional chart?
- a. _____
21. What is the significance of a blue colored airport symbol on a sectional chart?
- a. _____
22. Reference Figure 22 – What class of airspace is indicated at Pueblo (blue dashed line)?
- a. _____
23. What are the VFR cloud clearance and visibility requirements to enter that airspace?
- a. _____
- b. _____
24. Decode the airport information block for Pueblo airport.
- Line 1. _____
- Line 2. _____
- Line 3. _____
- Line 4. _____
- Line 5. _____
25. Reference Figure 25 – What is a MOA? Can you enter the MOA as a VFR pilot when it is active?
- a. _____
- b. _____
26. Reference Figure 26 – What does the blue '75' indicate?
- a. _____
27. What is the minimum safe altitude (AGL) over the city of Pueblo?
- a. _____
28. Reference Figure 28 – What do the black and grey lines indicate in the box?
- a. _____
29. Reference Figure 29 – What does the black dot and number 5410 indicate?
- a. _____
30. Reference Figure 30 – What does the empty magenta circle tell you about the airport (Calhan)?
- a. _____

31. A solo student pilot on a cross country flight must return to the Academy Airfield how long before sunset?

a. _____

32. Reference Figure 32 – What are the thick blue lines in the vicinity? What class of airspace are they? What are the top and bottom altitudes?

a. _____

b. _____

c. _____