Instructions

This is an open book exam that covers FAR parts 1, 61, 91 AFMAN 232-34, AFI 34-117 and Aeronautical Information Manual (AIM). Do not assume information not specifically provided in the questions.

Student's Name __________________________ Primary Flight Instructor's Name______________________________

Date __________________________ Grade ______________________________

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

Primary CFI signature __________________________ Certificate number ________________________________

Date __________________________ (FAR 61.87 b2)

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 1 / 2)
   A. __________________________________
   B. ___________________________________
6. What general limitations are placed on a student pilot while acting as pilot in command? (61.89 a)
   A. ____________________________________________________________
   B. ____________________________________________________________
   C. ____________________________________________________________
   D. ____________________________________________________________
   E. ____________________________________________________________
   F. ____________________________________________________________
   G. ____________________________________________________________
   H. ____________________________________________________________

THE FOLLOWING QUESTIONS ARE COVERED IN FAR PART 91

7. Who is responsible for the operation of the aircraft? (FA 91.3a)
   A. ____________________________________________________________

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

9. What action is required by the PIC if an unairworthy condition is discovered? (FA 91.7b)
   A. ____________________________________________________________

10. No person may act as a crewmember after consuming alcohol or while using any drug that effects the person's faculties in any way contrary to safety until what conditions are meet? (91.17a)
    A. ____________________________________________________________
    B. ____________________________________________________________
    C. ____________________________________________________________

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; (91.103a/b)
    A. ____________________________________________________________
    B. ____________________________________________________________
    C. ____________________________________________________________
    D. ____________________________________________________________
    E. ____________________________________________________________
    F. ____________________________________________________________
    G. ____________________________________________________________

12. Who has the right-of-away when 2 aircraft are on final approach to a landing? (FA 91.113g)
    A. ____________________________________________________________
13. What are the minimum safe altitudes? (FAR 91.119a,b,c)
   A. Anywhere ______________________________________________
   B. Over congested areas _________________________________________
   C. Other than congested areas ________________________________

14. What are the dimensions of class D airspace, the direction of standard traffic pattern and communication requirements? (FAR 91.129a,c (1) (2), f(1) and reference to 91.126b & d, and 91.127a, b, c)
   A. ____________________________________________________________
   B. ____________________________________________________________

15. What are the operation requirements to enter Class C airspace? (91.130 c) and (91.215b)
   A. __________________________________________________________________________________________

16. What are the fuel reserve requirements for a day VFR flight and a night VFR flight? (91.151)
   A. Day ___________________________ B. Night ___________________________

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

18. What are the VFR cruising altitudes and what is the minimum altitude at which they apply? (91.159)
   A. __________________________________________________________________________________________

19. What are the minimum equipment and instrument requirements for a day VFR flight? (91.205)
   A. _______________________________________________________________________________________
   B. _______________________________________________________________________________________
   C. _______________________________________________________________________________________
   D. _______________________________________________________________________________________
   E. _______________________________________________________________________________________
   F. _______________________________________________________________________________________
   G. _______________________________________________________________________________________
   H. _______________________________________________________________________________________
   I. _______________________________________________________________________________________
   J. _______________________________________________________________________________________
   K. _______________________________________________________________________________________
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. ______________________________________________________________________________________________________________
   B. ______________________________________________________________________________________________________________

21. Describe Class D airspace: Dimensions, pilot requirements, equipment, communication and airspeed limit? (AIM 3-2-5)
   A. ______________________________________________________________________________________________________________
   B. ______________________________________________________________________________________________________________
   C. ______________________________________________________________________________________________________________
   D. ______________________________________________________________________________________________________________
   E. ______________________________________________________________________________________________________________

22. Describe Class C airspace: Dimensions, pilot requirements, equipment, communication and airspeed limit? (AIM 3-2-4)
   A. ______________________________________________________________________________________________________________
   B. ______________________________________________________________________________________________________________
   C. ______________________________________________________________________________________________________________
   D. ______________________________________________________________________________________________________________
   E. ______________________________________________________________________________________________________________

23. Name the closed pattern legs? (AIM 4-3-2)
   A. _______ B. _______ C. _______ D. _______ E. _______ 

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

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

THE FOLLOWING QUESTIONS ARE COVERED IN AFI 34-117 (AERO CLUB SOP)

26. When is "student" considered a "no show" for a scheduled flight and what charges apply? (Chapter 1. Paragraph 11)
   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 on the maintenance form? (6.2)
   A. _________________________________
29. What is the flight restriction for a solo student pilot with cumulonimbus cloud formations (thunderstorms) with in 15nm of the academy airfield? (AFMAN 34-232 Attachment 2, A2.4.3.7)
   A. _______________________________________________________

30. All aero club flights must flight plan for a fuel reserve of _______ hours at cruise power. (AFI 4.17.2)

THE FOLLOWING QUESTIONS ARE COVERED IN THE AIRCRAFT PILOT OPERATING HANDBOOK
USE THE POH FOR A CESSNA 172 P MODEL (6601K/98306)

31. Describe the engine of the Cessna 172. (POH 1-3)
   A. __________________________________________________________________________________________________________

32. What are the accept fuel grades that can be used in the Cessna 172? (POH)
   1. __________________________________________________________________________________________________________

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

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

35. What type of flaps dose the Cessna 172 use; how are they operated? (POH 7-10)
   A. ____________________________ 2. ____________________________

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

37. Describe how fuel is delivered to the engine? (POH 7-20)
   A. __________________________________________________________________________________________________________

38. Describe a north departure when taking off on 16L. Include checkpoints and altitudes (Inflight Guide)
   A. __________________________________________________________________________________________________________