

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

Date: \_\_\_\_/\_\_\_\_/\_\_\_\_



### Cessna 150F Knowledge Exam

Answer the following questions in the space provided, using the POH, Aircraft Checklist, FARs, AIM, and AFD. If referencing any of these documents, annotate next to the answer for future reference.

NOTE: This aircraft has a 150HP modification. For the purposes of this exam, reference the POH.

#### Aircraft Questions

1. What type of engine does the C150 have? \_\_\_\_\_
2. What is the engine horsepower? \_\_\_\_\_
3. What is the maximum gross weight? \_\_\_\_\_
4. What is the empty weight? \_\_\_\_\_
5. What is the service ceiling? \_\_\_\_\_
6. What is the useful load with full fuel? \_\_\_\_\_
7. What is the approximate standard useful load? \_\_\_\_\_
8. What is the fuel capacity(Total / Useable)? \_\_\_\_\_
9. What is the oil capacity? \_\_\_\_\_
10. Identify the following speeds (MPH/KIAS):

$V_X$  - \_\_\_\_\_  $V_A$  - \_\_\_\_\_  $V_{NE}$  - \_\_\_\_\_  $V_G$  - \_\_\_\_\_

$V_Y$  - \_\_\_\_\_  $V_{SO}$  - \_\_\_\_\_  $V_{S1}$  - \_\_\_\_\_  $V_{FE}$  - \_\_\_\_\_

11. What type of fuse is used for the wing flaps circuit? \_\_\_\_\_
12. What is the maximum allowable drop in RPM during the magneto check? What is the maximum allowable difference between the left and right? \_\_\_\_\_
13. Describe aileron and elevator position for a left quartering headwind.  
\_\_\_\_\_

14. What is the crosswind limit? \_\_\_\_\_

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

Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

Instructor: \_\_\_\_\_

15. What is landing distance to clear a 50-foot obstacle (std day)? \_\_\_\_\_

16. Describe the procedures if an electrical fire occurs in flight.

\_\_\_\_\_

17. Describe the procedure for landing without engine power.

\_\_\_\_\_

18. If engine power is lost at 6000 ft AGL, how far can you expect to glide in calm conditions at  $V_G$ ? \_\_\_\_\_

19. What is the squawk code for radio failure? \_\_\_\_\_

20. Describe the tower light signals if on the ground. If in flight.

\_\_\_\_\_

21. What preflight actions are required before a flight not in the vicinity of an airport? Before any flight?

\_\_\_\_\_

22. List the minimum equipment and instruments that must be working properly in your aircraft for flight.

\_\_\_\_\_

23. How many hours are required between consuming alcohol and flying? What is the maximum blood alcohol content to legally operate an aircraft?

\_\_\_\_\_

24. What altitude should you fly when operating in level cruising flight at more than 3,000 feet agl?

\_\_\_\_\_

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

Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

Instructor: \_\_\_\_\_

25. Why is it necessary to drain fuel from the fuel sumps? When should this be done?

\_\_\_\_\_

26. What type and grade of fuel is used the C150?

\_\_\_\_\_

27. How do you check the oil level in the C150? What is the minimum allowable for a local flight?

\_\_\_\_\_

28. Will the engine run with the master switch turned off? Why?

\_\_\_\_\_

29. What is the maximum allowable flap setting for takeoff?

\_\_\_\_\_

30. What documents and endorsements are you required having in your possession to legally operate the airplane as a student pilot?

\_\_\_\_\_

31. Do you need your logbook in your possession when you fly solo? Why/Why not?

\_\_\_\_\_

32. Draw a diagram of the runway at TJIG. Label each runway. Add one runway traffic pattern and label each leg, airspeed, airplane configuration, and power setting.

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

Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

Instructor: \_\_\_\_\_

33. What is the standard traffic pattern for each runway and pattern altitude for TJIG?

\_\_\_\_\_

34. How do you enter and exit the traffic pattern at an uncontrolled airport?

\_\_\_\_\_

35. List the following frequencies at TJIG:

o ATIS: \_\_\_\_\_

o Ground / Clearance – o Tower: \_\_\_\_\_

o CTAF: \_\_\_\_\_

36. Describe, “Wake turbulence”. In which type of aircraft and in which configuration is this most prominent? What is proper procedure to avoid wake turbulence?

\_\_\_\_\_

37. When are you required to wear a safety belt? Shoulder harness?

\_\_\_\_\_

38. What is the minimum altitude you can fly anywhere? Over congested areas? Over other than congested areas? Over sparsely populated areas or open water?

\_\_\_\_\_

39. List the documents that must be aboard the aircraft at all times.

\_\_\_\_\_

40. Who has the final authority and responsibility for the operation of the aircraft when you are flying solo?

\_\_\_\_\_

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

Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

Instructor: \_\_\_\_\_

41. Can you operate in Class B airspace as a student pilot?

\_\_\_\_\_

42. What is the minimum fuel requirement for VFR day conditions?

\_\_\_\_\_

43. If the altimeter setting is not available at an airport, what setting should you use before departing on a local flight?

\_\_\_\_\_

44. What are the limitations of a student pilot, as stated in Part 61.89 of the Federal Aviation Regulations?

\_\_\_\_\_

45. What must you do before practicing maneuvers?

\_\_\_\_\_

46. When practicing Steep Turns, Stalls, and Slow Flight, the entry altitude must allow a recovery to be completed no lower than \_\_\_\_\_ feet agl.

47. When two aircraft of the same category are converging head-on, which way do you turn to avoid the other aircraft?

\_\_\_\_\_

48. Give three situations that would necessitate a go-around. List the procedure for a go-around.

\_\_\_\_\_

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

Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

Instructor: \_\_\_\_\_

49. What is the procedure for making a change in flight attitude? I.E., leveling off to cruise, climbing, descending, etc?

\_\_\_\_\_

Student Signature \_\_\_\_\_

Instructor: \_\_\_\_\_

Instructor Signature: \_\_\_\_\_

Certificate Number: \_\_\_\_\_

Date of Review/Logbook Endorsement: \_\_\_\_\_