

1. After reviewing the aircraft records, is everything in order for this flight?
  - A. Yes, everything is in order
  - B. No, you will need a pitot-static inspection
  - C. No, you will need a transponder inspection
  - D. You will need both a pitot-static and transponder inspection
  
2. After reviewing your personal records, are you legal to act as PIC of this flight?
  - A. Yes, you are legal to make this flight
  - B. No, you will need a complex endorsement
  - C. No, you are not day current on your landings
  - D. No, you will need a flight review
  
3. As you look over the weather packet, you notice an AIRMET for icing. What intensity icing is this AIRMET calling for?
  - A. An intensity that does not require the use of de/anti-ice equipment unless encountered for greater than one hour
  - B. An intensity that may require occasional use of de/anti-ice equipment to remove or prevent accumulation.
  - C. An intensity that requires use of de/anti-ice equipment or flight diversion to remove or prevent accumulation
  - D. An intensity that de/anti-ice equipment cannot handle, immediate flight diversion is necessary
  
4. What identifiable feature is indicated by the symbol located at N41° 58.2' W72° 07.7'?
  - A. Radio tower
  - B. Ranger station
  - C. Lookout tower
  - D. Hot air balloon landing site
  
5. During your preflight, you note the oil level to be at 10 quarts and you have 30 gallons of fuel in the wing tanks and a full auxiliary fuel tank. You load the 20 lb. skis to deliver to Jane in the full length ski tube. What is your ramp CG at Skylark? (write in to the nearest hundredth of an inch)

(write your answer on the answer sheet, not on this test!)
  
6. If your Viking produces 320 pounds of drag in climb, and you double your climb airspeed when you level off at cruise, how many pounds of drag are produced at cruise? (write in)

(write your answer on the answer sheet, not on this test!)
  
7. What is the minimum length of a paved runway for it to be depicted as a hard surfaced runway on a sectional chart?
  - A. 1,000'
  - B. 1,500'
  - C. 2,000'
  - D. 2,500'
  
8. You tune in the Putnam VOR/DME for some additional guidance on this leg. You hear the morse code identifier once every thirty seconds. Will you be able to navigate with the Putnam VOR on this leg?
  - A. Yes
  - B. No

9. Referencing the Worcester (KORH) METAR, what should you be aware of on landing at Hopedale?
- A. A house
  - B. Trees
  - C. Displaced threshold
  - D. Trees and a house
10. You hop out and stretch your legs waiting for Bill to arrive. While waiting, you begin to plan the flight up to Manchester. What should you be aware of on this leg?
- A. IFR conditions
  - B. Laser light activity near Graniteville, MA
  - C. Laser light activity near Fort Devons R-4102
  - D. Nothing out of the ordinary
11. Bill arrives with a 15 pound bag to put in the baggage area. Bill weighs 171 pounds and will ride up front with you. What is your ramp weight?
- A. 2,978 pounds
  - B. 2,970 pounds
  - C. 2,963 pounds
  - D. 2,955 pounds
12. You file a flight plan for this leg. You depart at 2011 zulu, how will you open your flight plan to Manchester?
- A. Putnam FSS on 122.2
  - B. Bridgeport FSS on 122.2
  - C. Putnam FSS on 122.1, listen 117.4
  - D. Bridgeport FSS on 122.1, listen 117.4
13. Well, you finished leg 1 exactly as your laptop computer flight planning software estimated, 18 minutes and 53 seconds using 7.25 gallons of fuel. Unfortunately, the battery in your laptop died, so you will have to plan the rest of your flights the old fashioned way. How much time will you spend in cruise enroute to MHT?
- A. 9 min. 15 sec.
  - B. 10 min. 48 sec.
  - C. 12 min. 02 sec.
  - D. 13 min. 39 sec.
14. What is your magnetic heading in descent? (fill in)
- (write your answer on the answer sheet, not on this test!)
15. What does the symbol off the left side of your course indicate when you are 28nm into this leg? (it is right on the Mode C veil line)
- A. It is a closed airport
  - B. It is an abandoned airport with a grass runway at least 3,000' long
  - C. It is a private airport that the FAA has shut down
  - D. It is an abandoned airport with a paved 3,000' runway that has landmark value

16. Where will you start your descent into Manchester?
- A. Over a set of power lines
  - B. Over a highway
  - C. 16 minutes before your arrival
  - D. Abeam Chelmsford, MA
17. What will your landing ground roll be at Manchester?
- A. 912'
  - B. 835'
  - C. 703'
  - D. 658'
18. What will you find on the runway on landing in Manchester?
- A. 1/4 inch loose and packed snow
  - B. 1/4 covered in loose and packed snow
  - C. 1/8 covered with ice and snow
  - D. 1/8 covered in heavy, dry snow
19. You just remembered that your oxygen bottle is only half full. You would like to have it serviced to its maximum capacity of 1,800 psi. Can you have this done here in MHT?
- A. Yes, they have the capability to service your high pressure bottle
  - B. No, they can only replace your high pressure bottle
  - C. Yes, they can fill your low pressure bottle
  - D. No, they can only replace your low pressure bottle
20. You and Bill hop out and deliver the new skis to Jane. All three of you head out for a nice dinner before loading up for the flight to Albany. You plan to depart at 0045 zulu. Jane weighs 195 pounds and sits in the back seat. She puts her 20 pound overnight bag in the baggage area. What is your takeoff distance over a 50' tree? (write in)
- (write your answer on the answer sheet, not on this test!)
21. How much fuel will you burn by the time you reach 14,500'?
- A. 5.4 gallons
  - B. 7.8 gallons
  - C. 6.5 gallons
  - D. 8.9 gallons
22. How long will you have to breathe supplemental oxygen on this leg?
- A. You won't since you are not above 12,500 feet more than 30 min.
  - B. You will have to breathe oxygen for just over 13 minutes
  - C. You will have to for about 17 minutes
  - D. You will not need to, but you must have a supply of oxygen on board
23. When does the AIM recommend that you use supplemental oxygen for this leg?
- A. When you are above 10,000 feet at all times
  - B. When you are above 5,000 feet for more than 30 minutes
  - C. At all times when you begin to feel tired
  - D. At all times above 5,000 feet

24. What is the Lebanon, NH (LEX) radar reporting?
- A. An area 60% covered in light snow 112 miles wide
  - B. An area 60% covered in moderate snow 112 miles west of Lebanon
  - C. An area 60% covered in moderate snow moving to the southwest at 52 knots
  - D. An area 60% covered in moderate snow with maximum tops at 12,000'
25. What is your magnetic heading in cruise on leg #3?
- A. 267°
  - B. 261°
  - C. 282°
  - D. 252°
26. What happens to  $V_x$  and  $V_y$  at high altitudes?
- A.  $V_x$  and  $V_y$  will both increase
  - B.  $V_x$  and  $V_y$  will both decrease
  - C.  $V_x$  will decrease and  $V_y$  will increase
  - D.  $V_x$  will increase and  $V_y$  will decrease
27. What does the RP\* indicate by Dillant-Hopkins (EEN) airport?
- A. Right hand traffic for all runways
  - B. Right hand traffic for the primary runway
  - C. Right hand traffic, consult the A/F D for more information
  - D. Right hand traffic, but only during hours of darkness
28. On what frequency will you contact Albany approach?
- A. 125.00
  - B. 118.05
  - C. 127.15
  - D. 119.50
29. How much fuel did you burn on this leg?
- A. 11.2 gallons
  - B. 12.1 gallons
  - C. 13.3 gallons
  - D. 14.4 gallons
30. What runway will you land on in Albany?
- A. 1
  - B. 19
  - C. 10
  - D. 28
31. After a brief stop in Albany to pick up Jack, you are ready to head home to Skylark. Jack sits in back and weighs 180 pounds and he puts his 12 pound carry-on in the baggage compartment. What is your ramp weight before you depart for Skylark? (write in to the nearest pound)

(write your answer on the answer sheet, not on this test!)

32. What will you pass northeast of 11.1 minutes into this leg? (just east of Brainard)
- A. A short private runway
  - B. An ultralight airport
  - C. A dragstrip
  - D. A dam
33. What is your relative bearing to the Dalton (DXT) NDB when you are over CANAN intersection?
- A. 310°
  - B. 313°
  - C. 316°
  - D. 319°
34. What will your groundspeed be in cruise for this leg?
- A. 204 knots
  - B. 224 mph
  - C. 180 knots
  - D. 345 mph
35. Is there any voice capability over the BDL VORTAC?
- A. Yes
  - B. No
36. How much fuel have you burned since you left Skylark?
- A. 34.9 gallons
  - B. 35.7 gallons
  - C. 36.8 gallons
  - D. 38.1 gallons
37. How much time did you log today?
- A. 1.6 hrs.
  - B. 1.8 hrs.
  - C. 2.0 hrs.
  - D. 2.2 hrs.
38. Where is the ERJ145 (E145) reporting light rime icing during descent to 3,800 MSL?
- (write your answer on the answer sheet, not on this test!)
39. What did you do wrong on this flight?
- |                                |   |
|--------------------------------|---|
| I. Took off over weight        | III. Landed with insufficient fuel reserves |
| II. Landed at a closed airport | IV. Flew without being day current          |
- A. I only
  - B. II & III
  - C. II, III, & IV
  - D. I, II, III, & IV

**NIFA SAFECON 2005  
SCAN EXAM  
Answer Sheet**

Possible Correct	_39_
Column 1 Incorrect -	_____
Column 2 Incorrect -	_____
Total Correct	_____

Contestant # \_\_\_\_\_

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

Elapsed Time: \_\_\_\_\_ ; \_\_\_\_\_  
min      sec

School: \_\_\_\_\_

**MARK YOUR CHOICE COMPLETELY: SAMPLE (A) ● (C) (D)**

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1. (A) (B) (C) (D)

2. (A) (B) (C) (D)

3. (A) (B) (C) (D)

4. (A) (B) (C) (D)

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

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

7. (A) (B) (C) (D)

8. (A) (B)

9. (A) (B) (C) (D)

10. (A) (B) (C) (D)

11. (A) (B) (C) (D)

12. (A) (B) (C) (D)

13. (A) (B) (C) (D)

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

15. (A) (B) (C) (D)

16. (A) (B) (C) (D)

17. (A) (B) (C) (D)

18. (A) (B) (C) (D)

19. (A) (B) (C) (D)

20. \_\_\_\_\_

21. (A) (B) (C) (D)

22. (A) (B) (C) (D)

23. (A) (B) (C) (D)

24. (A) (B) (C) (D)

25. (A) (B) (C) (D)

26. (A) (B) (C) (D)

27. (A) (B) (C) (D)

28. (A) (B) (C) (D)

29. (A) (B) (C) (D)

30. (A) (B) (C) (D)

31. \_\_\_\_\_

32. (A) (B) (C) (D)

33. (A) (B) (C) (D)

34. (A) (B) (C) (D)

35. (A) (B)

36. (A) (B) (C) (D)

37. (A) (B) (C) (D)

38. \_\_\_\_\_

39. (A) (B) (C) (D)

Column 1 Incorrect = \_\_\_\_\_

Column 2 Incorrect = \_\_\_\_\_