

**TRAVIS AERO CLUB OPEN BOOK TEST**  
**PIPER 6XT – PA32-301XTC**  
**01 AUG 2006**

***REFER TO PIPER PA32-301XTC PILOT OPERATING HANDBOOK P/N: 767-032 FOR QUESTIONS 1-75 AND THE AVIDYNE ENTEGRA EXP5000 PFD MANUAL AND THE AVIDYNE ENTEGRA EX5000 MFD MANUAL FOR QUESTIONS 76-100.***

1. Fuel capacity of the 6XT is?
  - a. 107 US gals usable
  - b. 105 US gals usable
  - c. 102 US gals usable
  
2. Engine oil capacity is?
  - a. 12 quarts
  - b. 10 quarts
  - c. 8 quarts
  
3. Aircraft maximum takeoff, landing and ramp weights are?
  - a. 3700    3600    3620
  - b. 3600    3600    3615
  - c. 3550    3550    3525
  
4. Maximum weights in baggage compartments (lbs) are?
  - a. 125    100
  - b. 150    100
  - c. 100    100
  
5. Maximum structural cruising speed (Vno) is?
  - a. 140 kias
  - b. 150 kias
  - c. 160 kias
  
6. Never exceed speed (Vne) is?
  - a. 192 kias
  - b. 189 kias
  - c. 190 kias
  
7. Design maneuvering speed (Va) is?
  - a. 3600 lbs G.W. 132 kias
  - b. 2230 lbs G.W. 103 kias
  - c. Both a and b
  
8. Maximum flap extended speed (Vfe) is?
  - a. 112 kias        109 kcas
  - b. 113 kias        109 kcas
  - c. 114 kias        108 kcas
  
9. Maximum cylinder temperature is?
  - a. 475°F
  - b. 500°F
  - c. 550°F

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10. Maximum turbine inlet temperature?  
a. 1650°F  
b. 1700°F  
c. 1600°F
11. Maximum manifold pressure (Inches of Mercury) up to 12,000 to 14,000 feet density altitude 38 (12,000 to 14,000 feet density altitude 38-1.2 per 1,000 foot increase.)  
a. True  
b. False
12. Demonstrated X-Wind is?  
a. 20 kts  
b. 15 kts  
c. 17 kts
13. Do not exceed \_\_\_\_\_ inches of manifold pressure below 2100 rpm.  
a. 25  
b. 26  
c. 27
14. Power-off glide speed 3600 lbs (0° flaps).  
a. 75 kias  
b. 80 kias  
c. 85 kias
15. Stall speeds 3600 lbs (0° flaps) and 3600 lbs (40° flaps).  
a. 60 kias            56 kias  
b. 65 kias            59 kias  
c. 63 kias            57 kias
16. Best rate of climb speed is?  
a. 85 kias  
b. 90 kias  
c. 95 kias
17. Maximum flap speed is?  
a. 112 kias  
b. 113 kias  
c. 114 kias
18. Best angle of climb speed is?  
a. 110 kias  
b. 80 kias  
c. 100 kias
19. Proper main gear strut inflation is?  
a. 4.5 +/- .5 in.  
b. 5.0 +/- .5 in.  
c. 4.0 +/- .25 in.

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20. Starter manufacturers recommend that starter cranking periods be limited to \_\_\_\_ with a \_\_\_\_ rest period between cranking periods.
- a. 25 sec. 1 min.
  - b. 30 sec. 2 min.
  - c. 40 sec. 1 min.
21. Is it possible to use ship's battery in parallel with an external power source?
- a. True
  - b. False
22. Normal takeoff speeds depending on aircraft weight are?
- a. 67 to 80 kias
  - b. 65 to 75 kias
  - c. 68 to 79 kias
23. Enroute climb speed is?
- a. 95 kias
  - b. 100 kias
  - c. 115 kias
24. During descent the airspeed should be \_\_\_\_ and the throttle set to maintain a \_\_\_\_ ft/min. descent.
- a. 110 kias          500
  - b. 120 kias          750
  - c. 120 kias          1000
25. The fuel strainer is located where?
- a. FWD side of spar box, right side cabin
  - b. AFT side of spar box, left side of cabin
  - c. Lower left side of engine cowling
26. This aircraft has both an inboard and outboard lift detector.
- a. True
  - b. False
27. The standby fuel pump must be on during all climb conditions.
- a. True
  - b. False
28. For the maximum engine life, cylinder head temperatures should be maintained below \_\_\_\_.
- a. 450°F
  - b. 400°F
  - c. 375°F
  - d. 435°F

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29. This aircraft should be flown down the final approach course at \_\_\_\_ with power required to maintain the desired approach angle.
- 80 kias
  - 85 kias
  - 86 kias
  - 88 kias
30. The gross weight stalling speed with power off and full flaps is 59 kias. With flaps up, this speed is increased by \_\_\_\_ and the loss of altitude during stalls can be as great as \_\_\_\_.
- 4 kts    300 ft.
  - 6 kts    400 ft.
  - 7 kts    500 ft.
31. The inboard lift detector should be checked at what flap setting?
- 0° flaps
  - 25° flaps
  - 40° flaps
  - Full flaps
32. How much fuel must you add for start, taxi, and takeoff?
- 2.0 gals
  - 2.5 gals
  - 3.0 gals
33. During normal operations, what Bhp \_\_\_\_ is available at 12,000 ft. density altitude (38" MAP @ 2500 rpm).
- 280
  - 300
  - 290
  - 310
34. With 4 occupants (2 in the front, 2 in the middle) you should load baggage in the rear compartment first.
- True
  - False
35. With 5 occupants (1 in the front, 2 in the middle, 2 in the rear) you should load forward baggage to capacity first.
- True
  - False
36. The aircraft has how many fuel tanks?
- 4
  - 2
  - 3

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37. The nose gear can be turned \_\_\_\_ degrees left and right?
- 24°
  - 20°
  - 26°
  - 28°
38. The flaps have three extended positions: 10°, 25°, 40°
- True
  - False
39. Two external fuel quantity indicators are installed on the inboard fuel tanks; these are used to measure fuel not visible through the filler neck. Each gauge indicates usable fuel quantities from \_\_\_\_ gals to \_\_\_\_ gals in level, ground attitude.
- 3 to 40
  - 5 to 35
  - 5 to 40
  - 0 to 35
40. The aircraft's \_\_\_\_ volt electrical system includes a \_\_\_\_ volt battery and a/an \_\_\_\_ amp alternator.
- 12      12      60
  - 28      24      80
  - 28      24      85
41. The average continuous load for night flight with radios is about \_\_\_\_ amps.
- 35
  - 40
  - 45
42. If the air conditioning is not operating in \_\_\_\_ minutes, turn the system OFF until the fault is corrected.
- 3
  - 4
  - 5
  - 6
43. Proper tire pressure is \_\_\_\_ psi in the nose and \_\_\_\_ psi in the mains.
- 25      50
  - 35      55
  - 30      60
44. The use of the air conditioner will decrease true airspeed by \_\_\_\_ kts and range by \_\_\_\_ nm and rate of climb by \_\_\_\_ ft/min with the door open.
- 6      55      100
  - 5      60      50
  - 4      50      100

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45. What size is the oxygen cylinder?
- a. 50 cubic feet
  - b. 60 cubic feet
  - c. 40 cubic feet
  - d. 55 cubic feet
46. When fully charged, the cylinder contains oxygen at a pressure of \_\_\_\_ psi at \_\_\_\_ degrees.
- a. 1900 80
  - b. 1850 70
  - c. 1800 70
47. 4 persons using the oxygen system at 15,000 ft. based on 90% consumption.
- a. 1.8
  - b. 1.6
  - c. 1.9
48. Should the RED TEST annunciator illuminate on the electric attitude indicator any time during the self test, this is an indication of what \_\_\_\_\_. (FILL IN THE BLANK)
49. The STBY PWR annunciator will \_\_\_\_ flash of for approximately \_\_\_\_ when auto shutdown after approximately \_\_\_\_.
- a. Slowly 30 sec. 30 sec.
  - b. Rapidly 1 min. 1 min.
  - c. Rapidly 1 min. 2 min.
50. Flight into known icing conditions is allowed with the TKS Ice Protection System.
- a. True
  - b. False
51. The fluid density is \_\_\_\_ lbs per U.S. gallons.
- a. 8.7
  - b. 9.2
52. TKS Ice Protection System tank capacity is?
- a. 3.5 gals
  - b. 4.0 gals
  - c. 4.5 gals
53. Before attempting to reset any circuit breaker allow a two to five minute cooling off period.
- a. True
  - b. False
54. Autopilot operation is prohibited below \_\_\_\_ kias and above \_\_\_\_ kias.
- a. 80 170
  - b. 90 165
  - c. 85 175
  - d. 90 170

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55. For the Piper 6XT, the maximum flap deflection is limited to \_\_\_\_ with autopilot engaged.
- 10°
  - 20°
  - 30°
56. The mixture control lever has a lock to prevent activation of the mixture control instead of the throttle lever.
- True
  - False
57. Satisfactory engine cooling has been demonstrated for this aircraft to an outside temperature (OAT) of ISA +25.
- True
  - False
58. The magnetos should be checked at \_\_\_\_\_ rpm with the propeller set at \_\_\_\_ rpm and operation on one magneto should not exceed \_\_\_\_ seconds.
- 2000 High 15
  - 2200 Low 10
  - 2000 High 10
59. During taxi in hot and/or high altitude conditions, activation of the electric fuel pump may be required for smooth engine operation.
- True
  - False
60. White Arc (flaps down) speeds.
- 60 to 113 kias
  - 59 to 114 kias
  - 59 to 113 kias
61. Wing span is?
- 35 ft. 2.04 in.
  - 36 ft. 2.04 in.
  - 37 ft. 3.00 in.
62. Proper nose strut inflation is 3.25 +/- .25.
- True
  - False
63. The low bus voltage annunciator will be illuminated at voltages below...
- 25 volts
  - 30 volts
  - 20 volts
64. The cabin work table should be stowed for takeoff and landing.
- True
  - False

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65. The FWD baggage compartment has a light that will illuminate with the master switch off.
- True
  - False
66. Max weight for the cabin table is?
- 15 lbs
  - 12 lbs
  - 10 lbs
67. Max speed with the rear cabin and cargo door removed is?
- 150 kias
  - 147 kias
  - 135 kias
68. Crew mode of the GMA 340 audio panel allows passengers to hear aircraft radios.
- True
  - False
69. The GTX 330 transponder should be turned off before starting or shutting down the aircraft engine.
- True
  - False
70. On the GTX 330 transponder, the numbers 8 and 9 are used for code entry and to control brightness.
- True
  - False
71. On the S-TEC 55X autopilot, you must set the heading bug before pressing the HDG button and the autopilot is coupled to NAV 1.
- True
  - False
72. Only undertake turbo lean assist at power levels below...
- 75%
  - 65%
  - 55%
73. The oxygen system incorporates a flow indicator, when the \_\_\_\_ pellet disappears, oxygen is flowing normally.
- Green
  - Blue
  - Red
74. This aircraft can be flown with maximum number of adult passengers, full tanks and maximum baggage.
- True
  - False

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75. With full fuel tanks, it will take approximately \_\_\_\_ seconds to drain all of the fuel from the line from either tank to the fuel strainer.
- a. 5
  - b. 6
  - c. 8

***IF YOU ARE CHECKED OUT IN THE PA28-181 ARCHER III WITH THE AVIDYNE ENTEGRA, YOU ARE NOT REQUIRED TO COMPLETE QUESTIONS 76-100.***

76. Where would the ILS/LOC bugs be displayed on the PFD when you have an ILS/LOC approach frequency selected in the NAV section of the PFD?
- a. On the right hand side and the bottom of the HSI
  - b. On the right hand side and the bottom of the Attitude Indicator
77. How long will it be before the NAV and HDG Bug button are re-enabled after you have last pushed or rotated the knobs and buttons on the PFD?
- a. 10 seconds
  - b. 20 seconds
  - c. 30 seconds
78. To switch between Nav Source on the NAV, BEARING, and AUX section buttons on the PFD you would press either one of those buttons until the appropriate Nav Source is displayed on the HSI.
- a. True
  - b. False
79. To change the HDG Bug, VSI Bug, or BARO SET, you would press one of those buttons and turn the bug with the left knob.
- a. True
  - b. False
80. To set the ALT Bug to 10,500 feet you would:
- a. Press the ALT Bug once and turn the right hand knob to 10,500 feet.
  - b. Press the ALT Bug once and turn the left hand knob to 10,500 feet.
  - c. Press the ALT Bug once and turn the right hand knob to 10,000 feet, press the ALT Bug a second time and turn the right hand knob to 10,500 feet.
81. When are you allowed to taxi?
- a. During initialization
  - b. When it is OK to taxi
  - c. After the AHRS is warmed up and the PFD is displayed
  - d. Both B & C
82. Which items would you use on the PFD to fly a constant rate turn?
- a. The black trapezoid on the Attitude Indicator
  - b. The Rate of Turn indicator above the HSI
  - c. Both A & B

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83. How do you activate the GPS Roll Steering Mode (GPSS Mode)?
- Press the NAV button twice on the autopilot
  - Press the NAV button once on the autopilot
  - Press and hold the NAV button on the autopilot
84. How would you use the Altitude Capture Mode on the PFD and the autopilot?
- Set your Altitude and VSI bug and push the ALT button and then the VS button on the autopilot
  - Set your Altitude and VSI bug and push the VS button and when you reach your altitude press the ALT button on the autopilot.
  - Set your Altitude and VSI bug and push the ALT and VS button simultaneously on the autopilot.
85. Which one is NOT an Invalid Sensor or Error Condition?
- Invalid Air Data
  - Invalid Heading
  - Degraded Accuracy
  - Recoverable Attitude
86. When you receive a “CROSSCHCK ATTITUDE” alert display, what should you do?
- Ignore it
  - Scan all backup and auxiliary instruments
  - Use Autopilot (not HDG mode)
  - Both B & C
87. When a recoverable attitude data failure occurs, what should you NOT do?
- Maintain straight and level flight
  - Press the “FAST ERECT” button
  - Pull the PFD circuit breaker
  - None of the above
88. When engine data becomes unavailable, what should you do?
- Reset the PFD
  - Use the engine instruments on the MFD
  - Land as soon as possible
  - Both B & C
89. How would you adjust the range on the “Map” page?
- Turn the right hand knob on the MFD
  - Turn the left hand knob on the MFD
90. Where would you find your engine information on the “Map” page?
- Right hand side of the screen
  - Left hand side of the screen
91. Where would you find your trip information on the “Map” page?
- Right hand side of the screen
  - Left hand side of the screen

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92. What are the errors displayed on the “Map” page?
- Loss of GPS input
  - Loss of Heading input
  - Loss of Engine input
  - Both A & B
93. Which is NOT a setting on the Dedicated Traffic Page?
- View: Center
  - Range: 5 NM
  - Base Map: Terrain
  - Declutter: No symbol or airspace depiction
94. Which page would you find your destination weather and destination airport information on the MFD?
- Trip page
  - Nrst page
  - Aux page
  - Map page
95. Which page would you find METARS and TAFS from airports along your route?
- Trip page
  - Nrst page
  - Aux page
  - Map page
96. Which page would you go to change the GPS Nav Source?
- Trip page
  - Nrst page
  - Aux page
  - Map page
97. Fuel quantity to the “Tabs” on an Archer is 34 gal. On the Initial Usable Fuel Page on the MFD, how would you set the fuel to 34 gal?
- Turn the right hand knob to 34 gal and press “Fuel Done.”
  - Turn the left hand knob to 34 gal and press “Fuel Done.”
98. How would you lean the aircraft to “Best Economy” using the “Lean Assist?”
- Press “Lean Assist,” lean the engine until it says “Best Power,” then continue to lean to “Best Economy.”
  - Press “Lean Assist ,” lean the engine until it says “Too Lean,” then enrich to “Best Economy.”
  - Press “Lean Assist,” lean the engine until it says “Best Economy.”
99. How would you lean the aircraft to “Best Power” using the “Lean Assist?”
- Press the “Lean Assist,” lean the engine until it says “Best Power.”
  - Press the “Lean Assist,” lean the engine until it says “Best Economy,” then enrich until it says “Best Power.”
  - Press “Lean Assist,” lean the engine until it says “Too Lean,” then enrich to “Best Power.”

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100. Which display will show the current EGT temperatures at a zero point?
- d. Absolute
  - e. Normalize