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The following sample exam for Commercial Pilot-Airplane (CAX) is suitable study material for the Commercial Pilot-Airplane Rating. These questions are a representation of questions that can be found on all Commercial Pilot-Airplane Rating tests. The applicant must realize that these questions are to be used as a study guide, and are not necessarily actual test questions. The full CAX test contains 100 questions. The Application Identification, Information Verification and Authorization Requirements Matrix lists all FAA exams. It is available at: http://www.faa.gov/training_testing/testing/media/testing_matrix.pdf

The FAA testing system is supported by a series of supplement publications. These publications include the graphics, legends, and maps that are needed to successfully respond to certain test questions. FAA-CT-8080-1, Computer Testing Supplement Commercial Pilot is available at: http://www.faa.gov/training_testing/testing/test_questions/media/FAA-CT-8080-1C.pdf

The Learning Statement Reference Guide for Airman Knowledge Testing contains listings of learning statements with their associated codes. Matching the learning statement codes with the codes listed on your Airman Knowledge Test Report assists in the evaluation of knowledge areas missed on your exam. It is available at:

http://www.faa.gov/training_testing/testing/media/LearningStatementReferenceGuide.pdf

Sample CAX Exam:

1 . PLT310

A load factor of 1.2 means the total load on an aircraft's structure is 1.2 times its

- A) gross weight.
- B) load limit.
- C) gust factor.

2 . PLT266

Both lift and drag would be increased when which of these devices are extended?

- A) Flaps.
- B) Spoilers.
- C) Slats.

3 . PLT237

In theory, if the airspeed of an aircraft is cut in half while in level flight, parasite drag will become

- A) one-third as much.
- B) one-half as much.
- C) one-fourth as much.

4 . PLT132

The ratio of an airplane's true airspeed to the speed of sound in the same atmospheric conditions is

- A) equivalent airspeed.
- B) transonic airflow.
- C) mach number.

5 . PLT018

If the airspeed is decreased from 98 knots to 85 knots during a coordinated level 45° banked turn, the load factor

- A) remain the same, but the radius of turn will decrease.
- B) decrease, and the rate of turn will decrease.
- C) remain the same, but the radius of turn will increase.

6 . PLT018

If the airspeed is increased from 89 knots to 98 knots during a coordinated level 45° banked turn, the load factor

- A) decrease, and the radius of turn will decrease.
- B) remain the same, but the radius of turn will increase.
- C) increase, but the rate of turn will decrease.

7 . PLT477

The stalling speed of an airplane is most affected by

- A) changes in air density.
- B) variations in flight altitude.
- C) variations in airplane loading.

8 . PLT168

During the transition from straight-and-level flight to a climb, the angle of attack is increased and lift

- A) is momentarily decreased.
- B) remains the same.
- C) is momentarily increased.

9 . PLT237

As airspeed decreases in level flight below that speed for maximum lift/drag ratio, total drag of an airplane

- A) decreases because of lower parasite drag.
- B) increases because of increased induced drag.
- C) increases because of increased parasite drag.

10 . PLT242

An aircraft airfoil is designed to produce lift resulting from a difference in the

- A) negative air pressure below and a vacuum above the airfoil's surface.
- B) vacuum below the airfoil's surface and greater air pressure above the airfoil's surface.
- C) higher air pressure below the airfoil's surface and lower air pressure above the airfoil's surface.

11 . PLT168

To hold an airplane in level flight at airspeeds from very slow to very fast, a pilot must coordinate thrust and

- A) angle of incidence.
- B) gross weight.
- C) angle of attack.

12 . PLT245

A left side slip is used to counteract a crosswind drift during the final approach for landing. An over-the-top spin would most likely occur if the controls were used in which of the following ways? Holding the stick

- A) too far back and applying full right rudder.
- B) in the neutral position and applying full right rudder.
- C) too far to the left and applying full left rudder.

13 . PLT242

Why is it necessary to increase back elevator pressure to maintain altitude during a turn? To compensate for the

- A) loss of the vertical component of lift.
- B) loss of the horizontal component of lift and the increase in centrifugal force.
- C) rudder deflection and slight opposite aileron throughout the turn.

14 . PLT012

If an aircraft is consuming 9.3 gallons of fuel per hour at a cruising altitude of 6,000 feet and the groundspeed is 135 knots, how much fuel is required to travel 390 NM?

- A) 27 gallons.
- B) 30 gallons.
- C) 35 gallons.

15 . PLT012

(Refer to figure 11.) What would be the approximate true airspeed and fuel consumption per hour at an altitude of 7,500 feet, using 52 percent power?

- A) 103 MPH TAS, 6.3 GPH.
- B) 105 MPH TAS, 6.2 GPH.
- C) 105 MPH TAS, 6.6 GPH.

16 . PLT002

(Refer to figure 2.) Select the correct statement regarding stall speeds.

- A) Power-off stalls occur at higher airspeeds with the gear and flaps down.
- B) In a 60° bank the airplane stalls at a lower airspeed with the gear up.
- C) Power-on stalls occur at lower airspeeds in shallower banks.

17 . PLT002

What is the stall speed of an airplane under a load factor of 2.5 G's if the unaccelerated stall speed is 60 knots?

(Refer to figure 4. To use the chart, enter the figure from the far left vertical scale, Load Factor. Move horizontally right to the Load Factor curve. From that point, move vertically up to the intersection of the Stall Speed Increase curve. Next, move horizontally left to the vertical axis labeled Percent Increase in Stall Speed.)

- A) 62 knots.
- B) 84 knots.
- C) 96 knots.

18 . PLT015

If fuel consumption is 80 pounds per hour and groundspeed is 180 knots, how much fuel is required for an airplane to travel 460 NM?

- A) 205 pounds.
- B) 212 pounds.
- C) 460 pounds.

19 . PLT012

If an aircraft is consuming 9.5 gallons of fuel per hour at a cruising altitude of 6,000 feet and the groundspeed is 135 knots, how much fuel is required to travel 380 NM?

- A) 27 gallons.
- B) 30 gallons.
- C) 35 gallons.

20 . PLT074

(Refer to figure 5.) The vertical line from point E to point F is represented on the airspeed indicator by the

- A) upper limit of the yellow arc.
- B) upper limit of the green arc.
- C) blue radial line.

21 . PLT004

(Refer to figure 13.)

GIVEN:

Aircraft weight	4,000 lb
Airport pressure altitude	2,000 ft
Temperature	32 °C

Using a maximum rate of climb under the given conditions, how much time would be required to climb to a pressure altitude of 8,000 feet?

- A) 7 minutes.
- B) 8.4 minutes.
- C) 11.2 minutes.

22 . PLT008

(Refer to figure 35.)

GIVEN:

Temperature 85 °F
Pressure altitude 6,000 ft
Weight 2,800 lb
Headwind 14 kts

Determine the approximate ground roll.

- A) 742 feet.
- B) 1,280 feet.
- C) 1,480 feet.

23 . PLT134

The performance tables of an aircraft for takeoff and climb are based on

- A) pressure/density altitude.
- B) cabin altitude.
- C) true altitude.

24 . PLT015

If an airplane is consuming 12.5 gallons of fuel per hour at a cruising altitude of 8,500 feet and the groundspeed is 145 knots, how much fuel is required to travel 435 NM?

- A) 27 gallons.
- B) 34 gallons.
- C) 38 gallons.

25 . PLT012

If an aircraft is consuming 9.5 gallons of fuel per hour at a cruising altitude of 6,000 feet and the groundspeed is 135 knots, how much fuel is required to travel 420 NM?

- A) 27 gallons.
- B) 30 gallons.
- C) 35 gallons.

26 . PLT127

Density altitude is the vertical distance above mean sea level in the standard atmosphere at which

- A) pressure altitude is corrected for standard temperature.
- B) a given atmospheric density is to be found.
- C) temperature, pressure, altitude, and humidity are considered.

27 . PLT015

If fuel consumption is 80 pounds per hour and groundspeed is 180 knots, how much fuel is required for an airplane to travel 477 NM?

- A) 205 pounds.
- B) 212 pounds.
- C) 460 pounds.

28 . PLT343

For internal cooling, reciprocating aircraft engines are especially dependent on

- A) a properly functioning cowl flap augments.
- B) the circulation of lubricating oil.
- C) the proper freon/compressor output ratio.

29 . PLT343

Frequent inspections should be made of aircraft exhaust manifold-type heating systems to minimize the

- A) exhaust gases leaking into the cockpit.
- B) a power loss due to back pressure in the exhaust system.
- C) a cold-running engine due to the heat withdrawn by the heater.

30 . PLT343

An abnormally high engine oil temperature indication may be caused by

- A) a defective bearing.
- B) the oil level being too low.
- C) operating with an excessively rich mixture.

31 . PLT141

This taxiway sign would be expected

- A) at the intersection of runway 04/22 departure end and the taxiway.
- B) near the intersection of runways 04 and 22.
- C) at a taxiway intersecting runway 04/22.

32 . PLT140

When should pilots decline a 'land and hold short' (LAHSO) clearance?

- A) If runway surface is contaminated.
- B) When it will compromise safety.
- C) Only when the tower controller concurs.

33 . PLT140

A 'land and hold short' (LAHSO) clearance

- A) precludes a "Go Around" by ATC.
- B) does not preclude a rejected landing.
- C) requires a runway exit at the first taxiway.

34 . PLT140

Once a pilot-in-command accepts a 'land and hold short' (LAHSO) clearance, the clearance must be adhered to, just as any other ATC clearance, unless

- A) an amended clearance is obtained or an emergency occurs.
- B) the wind changes or Available Landing Distance decreases.
- C) Available Landing Distance decreases or density altitude increases.

35 . PLT141

'Runway Holding Position Markings' on taxiways

- A) identify where aircraft are prohibited to taxi when not cleared to proceed by ground control.
- B) identify where aircraft are supposed to stop when not cleared to proceed onto the runway.
- C) allow an aircraft permission onto the runway.

36 . PLT141

(Refer to figure 64.) You see this sign when holding short of the runway. You receive clearance to back taxi on the runway for a full-length runway 8 departure. Which way should you turn when first taxiing on to the runway for takeoff?

- A) Left.
- B) Right.
- C) Need more information.

37 . PLT141

This taxiway sign would be expected

- A) at the intersection of runway 04/22 departure end and the taxiway.
- B) near the intersection of runways 04 and 22.
- C) at a taxiway intersecting runway 04/22.

38 . PLT141

This sign confirms your position on

- A) runway 22.
- B) routing to runway 22.
- C) taxiway 22.

39 . PLT141

This signage and pavement markings confirms you are

- A) at the approach end of runway 22.
- B) about to enter a runway at the intersection of intersecting crossing runways.
- C) about to leave the taxiway and enter the runway at an intersection.

40 . PLT444

Who has the final authority to accept or decline any 'land and hold short' (LAHSO) clearance?

- A) ATC approach controller.
- B) ATC tower controller.
- C) Pilot-in-command.

41 . PLT141

The 'yellow demarcation bar' marking indicates

- A) runway with a displaced threshold that precedes the runway.
- B) a hold line from a taxiway to a runway.
- C) the beginning of available runway for landing on the approach side.

42 . PLT141

This sign is a visual clue that

- A) confirms the aircraft's location to be on taxiway "B."
- B) warns the pilot of approaching taxiway "B."
- C) indicates "B" holding area is ahead.

43 . PLT141

The runway holding position sign is located on

- A) runways that intersect other runways.
- B) taxiways protected from an aircraft approaching a runway.
- C) runways that intersect other taxiways.

44 . PLT141

(Refer to figure 57.) You are directed to taxi to runway 10. You see this sign at a taxiway intersection while taxiing. Which way should you proceed?

- A) Left.
- B) Right.
- C) Straight ahead.

45 . PLT141

(Refer to figure 64.) If cleared for an intersection takeoff on runway 8, you see this sign at the intersection hold short position. Which way should you turn when taxiing onto the runway?

- A) Left.
- B) Right.
- C) Need more information.

46 . PLT141

From the cockpit, this marking confirms the aircraft to be

- A) on a taxiway, about to enter runway zone.
- B) on a runway, about to clear.
- C) near an instrument approach clearance zone.

47 . PLT040

(Refer to figure 54.) What is the ceiling of the Class D Airspace of the Byron (C83) airport (Area 2)?

- A) 2,900 feet.
- B) 7,600 feet.
- C) Class D Airspace does not exist at Byron (C83).

48 . PLT162

Which is true regarding flight operations in Class A airspace?

- A) May conduct operations under visual flight rules.
- B) Aircraft must be equipped with approved distance measuring equipment (DME).
- C) Aircraft must be equipped with an ATC transponder and altitude reporting equipment.

49 . PLT161

The radius of the uncharted Outer Area of Class C airspace is normally

- A) 20 NM.
- B) 30 NM.
- C) 40 NM.

50 . PLT208

A pilot's most immediate and vital concern in the event of complete engine failure after becoming airborne on takeoff is

- A) maintaining a safe airspeed.
- B) landing directly into the wind.
- C) turning back to the takeoff field.

51 . PLT509

Which procedure should you follow to avoid wake turbulence if a large jet crosses your course from left to right approximately 1 mile ahead and at your altitude?

- A) Make sure you are slightly above the path of the jet.
- B) Slow your airspeed to VA and maintain altitude and course.
- C) Make sure you are slightly below the path of the jet and perpendicular to the course.

52 . PLT509

Which is true with respect to vortex circulation in the wake turbulence generated by an aircraft?

- A) Helicopters generate downwash turbulence only, not vortex circulation.
- B) The vortex strength is greatest when the generating aircraft is heavy, clean, and slow.
- C) When vortex circulation sinks into ground effect, it tends to dissipate rapidly and offer little danger.

53 . PLT526

Who is responsible for filing a Near Midair Collision (NMAC) Report?

- A) A passenger on board the involved aircraft.
- B) Local law enforcement.
- C) Pilot and/or Flight Crew of aircraft involved in the incident.

54 . PLT526

Pilots and/or Flight Crew members involved in NMAC occurrences are urged to report each incident immediately:

- A) By cell phone to the nearest Flight Standards District Office (FSDO) as this is an emergency.
- B) To local law enforcement.
- C) By radio or telephone to the nearest FAA ATC Facility or FSS.

55 . PLT103

What should a pilot do when recognizing a thought as hazardous?

- A) Label that thought as hazardous, then correct that thought by stating the corresponding learned antidote.
- B) Avoid developing this hazardous thought.
- C) Develop this hazardous thought and follow through with modified action.

56 . PLT104

While on an IFR flight, a pilot emerges from a cloud to find himself within 300 feet of a helicopter. Which of the following alternatives best illustrates the 'MACHO' reaction?

- A) He is not too concerned; everything will be alright.
- B) He flies a little closer, just to show him.
- C) He quickly turns away and dives, to avoid collision.

57 . PLT022

What are some of the hazardous attitudes dealt with in Aeronautical Decision Making (ADM)?

- A) Risk management, stress management, and risk elements.
- B) Poor decision making, situational awareness, and judgment.
- C) Antiauthority (don't tell me), impulsivity (do something quickly without thinking), macho (I can do it).

58 . PLT103

Most pilots have fallen prey to dangerous tendencies or behavior problems at some time. Some of these dangerous tendencies or behavior patterns which must be identified and eliminated include:

- A) Deficiencies in instrument skills and knowledge of aircraft systems or limitations.
- B) Peer pressure, get-there-itis, loss of positional or situation awareness, and operating without adequate fuel reserves.
- C) Performance deficiencies from human factors such as, fatigue, illness or emotional problems.

59 . PLT022

An early part of the Aeronautical Decision Making (ADM) process involves

- A) taking a self-assessment hazardous attitude inventory test.
- B) understanding the drive to have the 'right stuff.'
- C) obtaining proper flight instruction and experience during training.

60 . PLT103

What is the first step in neutralizing a hazardous attitude in the ADM process?

- A) Dealing with improper judgment.
- B) Recognition of hazardous thoughts.
- C) Recognition of invulnerability in the situation.

61 . PLT103

Examples of classic behavioral traps that experienced pilots may fall into are: trying to

- A) assume additional responsibilities and assert PIC authority.
- B) promote situational awareness and then necessary changes in behavior.
- C) complete a flight as planned, please passengers, meet schedules, and demonstrate the 'right stuff.'

62 . PLT272

What does good cockpit stress management begin with?

- A) Knowing what causes stress.
- B) Good life stress management.
- C) Eliminating life and cockpit stress issues.

63 . PLT205

To rid itself of all the alcohol contained in one beer, the human body requires about

- A) 1 hour.
- B) 3 hours.
- C) 4 hours.

64 . PLT280

To cope with spatial disorientation, pilots should rely on

- A) body sensations and outside visual references.
- B) adequate food, rest, and night adaptation.
- C) proficient use of the aircraft instruments.

65 . PLT463

With a blood alcohol level below .04 percent, a pilot cannot fly sooner than

- A) 4 hours after drinking alcohol.
- B) 12 hours after drinking alcohol.
- C) 8 hours after drinking alcohol.

66 . PLT205

To rid itself of all the alcohol contained in one mixed drink, the human body requires about

- A) 1 hour.
- B) 2 hours.
- C) 3 hours.

67 . PLT083

(Refer to figure 30) When approaching the VOR/DME-A, the symbol [2800] in the MSA circle represents a minimum safe sector altitude within 25 NM of

- A) DEANI intersection.
- B) White Cloud VORTAC.
- C) Baldwin Municipal Airport.

68 . PLT083

(Refer to figure 27.) The symbol [9200] in the MSA circle of the ILS RWY 35R procedure at DEN represents a minimum safe sector altitude within 25 NM of

- A) Denver VORTAC.
- B) Dymon outer marker.
- C) Cruup I-AQD DME fix.

69 . PLT083

(Refer to figure 30.) What minimum navigation equipment is required to complete the VOR/DME-A procedure?

- A) One VOR receiver.
- B) One VOR receiver and DME.
- C) Two VOR receivers and DME.

70 . PLT056

(Refer to figure 17.) Which statement is true regarding illustration 2, if the present heading is maintained? The aircraft will

- A) cross the 180 radial at a 45° angle outbound.
- B) intercept the 225 radial at a 45° angle.
- C) intercept the 360 radial at a 45° angle inbound.

71 . PLT014

(Refer to figure 21.) If the time flown between aircraft positions 2 and 3 is 13 minutes, what is the estimated time to the station?

- A) 13 minutes.
- B) 17 minutes.
- C) 26 minutes.

72 . PLT064

(Refer to figure 55) En route on V448 from YKM VORTAC to BTG VORTAC, what minimum navigation equipment is required to identify ANGOO intersection?

- A) One VOR receiver.
- B) One VOR receiver and DME.
- C) Two VOR receivers.

73 . PLT444

In what type of operation, not regulated by 14 CFR part 119, may a commercial pilot act as pilot in command and receive compensation for services?

- A) On-demand, nine or less passenger, charter flights.
- B) Aerial application, and bird chasing.
- C) On-demand cargo flights.

74 . PLT395

14 CFR part 1 defines VY as

- A) speed for best rate of descent.
- B) speed for best angle of climb.
- C) speed for best rate of climb.

75 . PLT466

14 CFR part 1 defines VNO as

- A) maximum operating limit speed.
- B) maximum structural cruising speed.
- C) never-exceed speed.

76 . PLT466

14 CFR part 1 defines VNE as

- A) maximum landing gear extended speed.
- B) never-exceed speed.
- C) maximum nose wheel extend speed.

77 . PLT444

Which of the following preflight actions is the pilot in command required to take in order to comply with the United States Code of Federal Regulations regarding day Visual Flight Rules (VFR)?

- A) File a VFR flight plan with a Flight Service Station.
- B) Verify the airworthiness certificate is legible to passengers.
- C) Verify approved position lights are not burned out.

78 . PLT405

Which is required equipment for powered aircraft during VFR night flights?

- A) Anticollision light system.
- B) Gyroscopic direction indicator.
- C) Gyroscopic bank-and-pitch indicator.

79 . PLT444

Before beginning any flight under IFR, the pilot in command must become familiar with all available information concerning that flight. In addition, the pilot must

- A) be familiar with all instrument approaches at the destination airport.
- B) list an alternate airport on the flight plan, and confirm adequate takeoff and landing performance at the destination airport.
- C) be familiar with the runway lengths at airports of intended use, and the alternatives available, if the flight cannot be completed.

80 . PLT414

During a night operation, the pilot of aircraft #1 sees only the green light of aircraft #2. If the aircraft are converging, which pilot has the right-of-way? The pilot of aircraft

- A) #2, aircraft #2 is to the right of aircraft #1.
- B) #1, aircraft #1 is to the right of aircraft #2.
- C) #2, aircraft #2 is to the left of aircraft #1.

81 . PLT444

You are taking a 196 nautical mile VFR cross country flight in mountainous terrain. Which of the following actions must the pilot in command take?

- A) Verify the airworthiness certificate is legible to passengers.
- B) File a VFR flight plan with a Flight Service Station.
- C) Ensure all items in the baggage area are strapped down.

82 . PLT492

What is the standard temperature at 6,500 feet?

- A) 15 °C.
- B) 2 °C.
- C) 38 °F.

83 . PLT261

Which statement is true concerning the hazards of hail?

- A) Hail damage in horizontal flight is minimal due to the vertical movement of hail in the clouds.
- B) Rain at the surface is a reliable indication of no hail aloft.
- C) Hailstones may be encountered in clear air several miles from a thunderstorm.

84 . PLT076

The jet stream and associated clear air turbulence can sometimes be visually identified in flight by

- A) dust or haze at flight level.
- B) long streaks of cirrus clouds.
- C) a constant outside air temperature.

85 . PLT287

On a Surface Analysis Chart, the solid lines that depict sea level pressure patterns are called

- A) isobars.
- B) isogons.
- C) millibars.

86 . PLT287

Dashed lines on a Surface Analysis Chart, if depicted, indicate that the pressure gradient is

- A) weak.
- B) strong.
- C) unstable.

87 . PLT290

SIGMET's are issued as a warning of weather conditions which are hazardous

- A) to all aircraft.
- B) particularly to heavy aircraft.
- C) particularly to light airplanes.

88 . PLT518

Hazardous wind shear is commonly encountered

- A) near warm or stationary frontal activity.
- B) when the wind velocity is stronger than 35 knots.
- C) in areas of temperature inversion and near thunderstorms.

89 . PLT518

The minimum vertical wind shear value critical for probable moderate or greater turbulence is

- A) 4 knots per 1,000 feet.
- B) 6 knots per 1,000 feet.
- C) 8 knots per 1,000 feet.

90 . PLT495

Thunderstorms identified as severe or giving an intense radar echo should be avoided by what distance?

- A) 5 miles.
- B) At least 25 miles.
- C) At least 20 miles.

91 . PLT495

The greatest threats to an aircraft operating in the vicinity of thunderstorms are:

- A) thunder and heavy rain.
- B) hail and turbulence.
- C) precipitation static and low visibility.

92 . PLT288

The visibility entry in a Terminal Aerodrome Forecast (TAF) of P6SM implies that the prevailing visibility is expected to be greater than

- A) 6 nautical miles.
- B) 6 statute miles.
- C) 6 kilometers.

93 . PLT514

Aviation Area Forecasts (FAs) for the contiguous U.S. are used in conjunction with inflight aviation weather advisories to interpolate

- A) temperatures and winds at altitude.
- B) conditions at airports for which no TAFs are issued.
- C) radar echo precipitation types and intensity levels.

94 . PLT059

What is meant by the Special METAR weather observation for KBOI?

- A) Rain and fog are creating an overcast at 700 feet AGL; rain began at 1912Z.
- B) The temperature-dew point spread is 1°C; rain began at 1812Z.
- C) Rain and overcast at 1200 feet AGL.

95 . PLT287

On Surface Analysis Charts, widely spaced isobars indicate a

- A) weak pressure gradient.
- B) strong pressure gradient.
- C) relatively turbulent wind.

96 . PLT061

What significant cloud coverage is reported by this pilot report?

- A) Three (3) separate overcast layers exist with bases at 2,500, 7,500 and 9,000 feet.
- B) The top of the lower overcast is 2,500 feet; base and top of second overcast layer are 4,500 and 9,000 feet, respectively.
- C) The base of the second overcast layer is 2,500 feet; top of second overcast layer is 7,500 feet; base of third layer is 9,000 feet.

97 . PLT475

What wind conditions would you anticipate when squalls are reported at your destination?

- A) Rapid variations in windspeed of 15 knots or more between peaks and lulls.
- B) Peak gusts of at least 35 knots combined with a change in wind direction of 30° or more.
- C) Sudden increases in windspeed of at least 16 knots to a sustained speed of 22 knots or more for at least 1

98 . PLT059

The station originating the following METAR observation has a field elevation of 5,000 feet MSL. If the sky cover is one continuous layer, what is the thickness of the cloud layer? (Top of overcast reported at 8,000 feet MSL.)

- A) 2,500 feet.
- B) 3,500 feet.
- C) 4,000 feet.

99 . PLT518

During departure, under conditions of suspected low-level wind shear, a sudden decrease in headwind will cause

- A) a loss in airspeed equal to the decrease in wind velocity.
- B) a gain in airspeed equal to the decrease in wind velocity.
- C) no change in airspeed, but groundspeed will decrease.

100 . PLT021

GIVEN:	WEIGHT	ARM	MOMENT
Empty weight	957	29.07	?
Pilot (fwd seat)	140	-45.30	?
Passenger (aft seat)	170	+1.60	?
Ballast	15	-45.30	?
TOTALS	?	?	?

The CG is located at station

- A) -6.43.
- B) +16.43.
- C) +27.38.