

Question block created by wizard

This exam contains 140 questions.

1. When spoilers operate in ROLL mode, what happens to the spoiler panels?

- (a) Only the spoiler panels are raised on the upward moving wing.
- (b) Only the spoiler panels are raised on the downward moving wing.
- (c) They all move UP the same amount.

If choice b is selected set score to 1.

2. Where are elevons installed?

- (a) To each side of the aircraft on the leading edge of the wing.
- (b) To one side of the aircraft on the trailing edge of the wing.
- (c) To each side of the aircraft on the trailing edge of the wing.

If choice c is selected set score to 1.

3. What type of aerodynamic balance system is shown in the figure below?



- (a) Aerodynamic balance panel

- o (b) Inset Hinges
- (c) Horn Balance

If choice c is selected set score to 1.

4. How does the air act at low-speed aerodynamics?

- o (a) as a solid.
- (b) as a fluid.
- o (c) as a gas.

If choice b is selected set score to 1.

5. What happens when an aircraft reaches its critical Mach number?

- o (a) The aircraft is flying supersonic from that point on.
- (b) A normal shock wave is formed on the wing.
- o (c) The wing cannot produce any more lift and the aircraft stalls.

If choice b is selected set score to 1.

6. On a subsonic jet engine, what type of intake will be used?

- o (a) Pilot intake.
- (b) Divergent duct-intake.
- o (c) Three-shock intake.

If choice b is selected set score to 1.

7. What is the meaning of a "fail-safe structural design"?

- o (a) It means that in case of partial structural failure the pilot will be informed by a caution warning.
- o (b) It is just a fancy expression used as commercial argument.
- (c) It indicates that structural loads are shared over multiple parts.

If choice c is selected set score to 1.

8. What is the main reason of having drains in the aircraft structure?

- o (a) To avoid the extra weight. This can overload the structure.
- o (b) The humidity caused by the fluid can influence the air-conditioning system.

- (c) Collecting fluids without draining could cause fire, corrosion or causing short cuts in the electrical system.

If choice c is selected set score to 1.

9. In which of the following construction methods does the skin take up ALL the stresses?

- o (a) Semi-monocoque.
- (b) Monocoque.
- o (c) Stressed skin construction.

If choice b is selected set score to 1.

10. A bonded metal-to-metal joint will be:

- o (a) Weaker than a riveted joint.
- (b) Stronger than a riveted joint.
- o (c) Just as strong as a riveted joint.

If choice b is selected set score to 1.

11. What is the most common used surface protection for aluminium alloy?

- (a) Cladding
- o (b) Paint
- o (c) Electroplating

If choice a is selected set score to 1.

12. To carry out a correct alignment check, the aircraft is jacked up. What must be done next?

- (a) Level the datum lines in the horizontal plane.
- o (b) Start with the alignment check.
- o (c) Level the datum lines in the flight position.

If choice a is selected set score to 1.

13. Which of the following compartments is usually unpressurized?

- (a) Rear fuselage area.
- o (b) Avionics compartment.
- o (c) Cargo compartment.

If choice a is selected set score to 1.

14. Why are non-magnetic bolts used on the front windshields?

- (a) They are less likely to be hit by lightning.
- (b) So they don't interfere with the standby compass.
- (c) They are stronger than other bolts.

If choice b is selected set score to 1.

15. What is the most critical part of a wing as far as the production of lift is concerned?

- (a) Trailing edge and bottom side of the wing.
- (b) Front end or leading edge.
- (c) Top and bottom side of the wing.

If choice b is selected set score to 1.

16. Integral fuel tanks are sealed by:

- (a) Rubber O-rings and gaskets.
- (b) Using sealant on all seams and rivets.
- (c) Rubber bladder tanks.

If choice b is selected set score to 1.

17. Radio antenna and HF equipment can typically be found on or in

- (a) Vertical stabilizer.
- (b) Horizontal stabilizer.
- (c) Avionics bay.

If choice a is selected set score to 1.

18. On the vertical stabilizer, which fittings take up the most of the lateral loads?

- (a) Aft fittings.
- (b) Top fittings.
- (c) Forward fittings.

If choice a is selected set score to 1.

19. The slats are supported by:

- (a) Hinges.
- (b) Straight tracks.
- (c) Curved steel tracks.

If choice c is selected set score to 1.

20. What type of aircraft does not need mass balancing?

- (a) Aircraft operated with control cables.
- (b) Aircraft controlled with fly-by-wire.
- (c) Aircraft equipped with aerodynamic balance tabs.

If choice b is selected set score to 1.

21. What is the purpose of a blow-out panel (inside a nacelle)?

- (a) To allow excess pressure to escape from the nacelle in case of a bleed duct rupture.
- (b) To allow pressure inside the nacelle to escape in case of fire.
- (c) To allow the air-pressure to equalize if the pressure inside the nacelle becomes lower than outside.

If choice a is selected set score to 1.

22. Which components are part of the firewall?

- (a) Hinged cowlings but only when open.
- (b) Hinged cowlings.
- (c) Exhaust cowling.

If choice b is selected set score to 1.

23. Where is the ground air conditioning cart used for?

- (a) Supplying the cabin with conditioned air, when only the cabin needs to be conditioned.
- (b) Starting the engines.
- (c) Running the de-icing system.

If choice a is selected set score to 1.

24. The RAM air supply is used....

- (a) only on unpressurized aircraft.
- (b) as an emergency air source on pressurized aircraft to ventilate the cockpit and the cabin.
- (c) as an alternate source to power the air-conditioning packs.

If choice b is selected set score to 1.

25. Before the air from the air conditioning pack enters the cabin:

- (a) Water is added to it to cool the air down.
- (b) Hot air is added to it to obtain the desired cabin temperature.
- (c) Cold air is added to it to obtain the desired cabin temperature.

If choice b is selected set score to 1.

26. The EASA requirement for air conditioning systems state that the cabin air must be exchanged:

- (a) 3 to 5 times a minute.
- (b) Once every hour.
- (c) Every 3 to 5 minutes.

If choice c is selected set score to 1.

27. What are the 3 basic principles of an air cycle cooling system?

- (a) Surface heat exchange - combustion - energy conversion
- (b) Compression - expansion - condensation
- (c) Surface heat exchange - expansion - energy conversion

If choice c is selected set score to 1.

28. What happens to the air temperature and air pressure when it leaves the compressor ACM (Air Cycle Machine)?

- (a) Both will be higher than the air going into the compressor.
- (b) Both will be lower than the air going into the compressor.
- (c) The temperature will rise and the pressure will drop.

If choice a is selected set score to 1.

29. In an air-conditioning pack is an anti-ice valve installed. How does it work?

- (a) Hot air will bypass the air cycle machine (ACM) and so the turbine will slow down in rpm.

- (b) When icing occurs in the water separator, hot air will bypass the air cycle machine (ACM) and will be used to heat up the water separator.
- o (c) Hot air from the anti-ice valve will close as protection the pack flow valve.

If choice b is selected set score to 1.

30. What happens if an air conditioning pack overheats?

- o (a) It goes into full cold mode.
- (b) It automatically shuts down.
- o (c) I automatically slows down.

If choice b is selected set score to 1.

31. The outflow valve of a pressurized cabin system opens when the cabin pressure is....

- o (a) too low.
- (b) too high.
- o (c) too low or too high.

If choice b is selected set score to 1.

32. During take-off the outflow valve is selected to

- o (a) fully closed.
- (b) fully open.
- o (c) modulating mode.

If choice b is selected set score to 1.

33. What places the pressure controller in the depressurisation mode after landing?

- o (a) Engines at idle.
- (b) Engines at idle and the landing gear compressed.
- o (c) Landing gear compression.

If choice b is selected set score to 1.

34. How is the emergency pressure control valve operated if the automatic control system fails?

- (a) Manually

- (b) Electrically
- (c) Hydraulically

If choice a is selected set score to 1.

35. The emergency pressure control valve....

- (a) is fitted to all pressurized aircraft.
- (b) is electrically controlled.
- (c) is not a very refined way of controlling.

If choice c is selected set score to 1.

36. Which of the following instruments is NOT an air data instrument?

- (a) Attitude
- (b) Vertical speed
- (c) Airspeed

If choice a is selected set score to 1.

37. On which display can I find the glide slope and localizer indication?

- (a) The attitude director indicator.
- (b) The horizontal situation indicator.
- (c) The I.L.S. indicator.

If choice a is selected set score to 1.

38. A flux valve is used for which type of instrument?

- (a) A remote reading compass.
- (b) An altitude director indicator.
- (c) A direct reading magnetic compass.

If choice a is selected set score to 1.

39. The critical angle of attack is:

- (a) Affected by angle of bank.
- (b) Different at different stall speeds.
- (c) Not affected by the aircraft weight.

If choice c is selected set score to 1.

40. When does the electronic attitude director indicator go automatically into composite display?

- (a) When the engine indication and crew alerting system display fails.
- (b) When the electronic horizontal situation indicator fails (EADI).
- (c) When selected by the crew.

If choice b is selected set score to 1.

41. Which type of fuel flow meter is commonly used in reciprocating engine aircraft?

- (a) Vane type
- (b) Motor less type
- (c) Float type

If choice a is selected set score to 1.

42. In a Fail Passive System;

- (a) The crew will disconnect a system before a dangerous situation occurs.
- (b) The crew is part of the monitoring when only one sensor of one kind is available.
- (c) The system monitor will disconnect a system before a dangerous situation occurs.

If choice c is selected set score to 1.

43. The Flight Director provides....

- (a) thrust commands for the engine trims.
- (b) computed steering commands to the command bars of the ADI and/or to an autopilot system.
- (c) data for the air data computers.

If choice b is selected set score to 1.

44. The Cockpit Voice Recorder....

- (a) allows a minimum of 30 minutes of recording.
- (b) contains also all engine and systems parameters.
- (c) records all voice information of the cabin crew and the passengers.

If choice a is selected set score to 1.

45. The Passenger Entertainment System PES:

- (a) provides Video, Music, Interactive Video Games and In-seat Telephone System.
- o (b) provides attendant Call, Individual Reading Lights Control and No Smoking Light on/off.
- o (c) provides primary the passenger with information on ambient aircraft flight data, times and aircraft position in the flight plan.

If choice a is selected set score to 1.

46. The DME Distance Measurement gives information about:

- o (a) the attitude of the aircraft.
- o (b) the ground distance from the aircraft to the selected ground station.
- (c) the slant range to the selected ground station.

If choice c is selected set score to 1.

47. The three critical measurements for the air data computer are:

- o (a) Altitude, groundspeed and coordinates.
- o (b) Airspeed, radio altitude and temperature.
- (c) Airspeed, Altitude and temperature.

If choice c is selected set score to 1.

48. Which type of battery can experience cell reversal and how can it be prevented?

- o (a) NiCad battery. Prevented by always fully discharging the battery.
- (b) NiCad battery. Prevented by never fully discharging the battery.
- o (c) Lead-acid battery. Prevented by fast charging battery.

If choice b is selected set score to 1.

49. What happens at the end of the charge of a NiCad battery?

- (a) The cell voltage drops.
- o (b) The battery heats up.
- o (c) CO₂ is generated,

If choice a is selected set score to 1.

50. How do you call the component that completes the magnetic circuit between the poles in a DC generator?

- o (a) The brushes.

- (b) The yoke.
- o (c) The armature.

If choice b is selected set score to 1.

51. The output of a single coil generator is

- o (a) a flat line.
- o (b) a saw foot.
- (c) a sine-wave.

If choice c is selected set score to 1.

52. If the over-speed protection circuit in a CSD (Constant Speed Drive) has activated, reset is....

- (a) only possible in the workshop.
- o (b) possible during Line Maintenance.
- o (c) possible from the flight deck.

If choice a is selected set score to 1.

53. The output sine waves of a 3-phase alternator will be separated by:

- o (a) 90 degrees
- o (b) 60 degrees
- (c) 120 degrees

If choice c is selected set score to 1.

54. When will the hydraulic motor generator (HMG) supply power?

- o (a) Manually, when the pilot switches it on after both main AC buses lose power.
- o (b) Automatically when the main battery is discharged.
- (c) Automatically when both main AC buses lose power.

If choice c is selected set score to 1.

55. The ram air turbine will supply....

- (a) single phase AC power.
- o (b) three phase DC power.
- o (c) DC power.

If choice a is selected set score to 1.

56. How is voltage regulation achieved on DC generators?

By changing the....

- (a) field current.
- o (b) generator speed.
- o (c) field voltage.

If choice a is selected set score to 1.

57. In a parallel bus configuration the generators will:

- o (a) Divide the load, with the strongest generators taking the biggest load.
- (b) Share the load equally among them.
- o (c) Each supply their own AC bus.

If choice b is selected set score to 1.

58. Transformer rectifiers are used for:

- o (a) Converting DC into AC.
- o (b) Boosting the output voltage from 28V to 110V.
- (c) Converting AC into DC.

If choice c is selected set score to 1.

59. What provides overheat warning in a transformer rectifier unit?

- (a) Thermal switch.
- o (b) Thermocouple.
- o (c) Voltage sensor.

If choice a is selected set score to 1.

60. Which of the following circuit breakers CANNOT be reset while the fault exists?

- o (a) Electromagnetic circuit breakers.
- (b) Trip free circuit breaker.
- o (c) Automatic reset circuit breaker.

If choice b is selected set score to 1.

61. On a large commercial aircraft, which bus will be powered as soon as external power is connected?

- (a) The external power bus.
- (b) The ground handling bus.
- (c) Battery bus.

If choice b is selected set score to 1.

62. Comfortable seat cushions are often made of foam type materials. Is this authorized on an airplane?

- (a) Yes, but the cushions are covered with a fire blocking material, this will slow down the burning of the material.
- (b) Yes, but the cushions are made of a special foam, which cannot burn.
- (c) No, aircraft cushions are made out of pressed cotton and goose feathers. These pure natural products don't give toxic gases when burning.

If choice a is selected set score to 1.

63. When does an aircraft needs to be equipped with slides, which can also be used as rafts?

- (a) All exits with a door sill above 1,8 meter have to be equipped with slides.
- (b) When the aircrafts flies longer than 90 minutes over water.
- (c) All aircraft certified for more than 44 passengers need exits equipped with slides.

If choice a is selected set score to 1.

64. May a demonstration life vest be used in a real emergency?

- (a) No, the cylinder is empty.
- (b) Yes, but only if the life time is not expired.
- (c) Yes, it is the personal life vest of the flight attendant and should be inspected after each demonstration by the flight attendant.

If choice a is selected set score to 1.

65. In case of electrical power loss, can the pilot still adjust his seat?

- (a) No. The seat is completely blocked in his its last position.
- (b) Yes, all the seat functions can always be operated manually.
- (c) No, without power the electrical functions, vertical and horizontal movement will be lost. Other functions such as recline and lumber support will remain since they have only manual control.

If choice b is selected set score to 1.

66. Has the observers seat the same functions as the pilot seat?

- (a) Yes
- (b) No, on large aircrafts the observer seat is usually very comfortable, but has not as many adjustment possibilities as the pilot seats.
- (c) Only on large aircraft (B777-B747-A330-A380) where the cockpit surface permits, an identical seat will be installed with all the same adjustments features.

If choice b is selected set score to 1.

67. How many cockpit seats do we find in a modern aircraft?

- (a) Mostly five. Captain, first officer, flight engineer, navigator, radio operator.
- (b) Mostly four. Captain, first officer, flight engineer and minimum one observer seat.
- (c) Mostly three. Captain, first officer and minimum one observer seat.

If choice c is selected set score to 1.

68. What is the best description for a "combi aircraft"?

- (a) This is an aircraft with a mixed configuration. This means that cargo also is loaded on the main deck passenger zone.
- (b) This just means that the aircraft transport passengers as well as cargo. Passengers in the upper lobe, cargo in the lower.
- (c) This is an aircraft with a mixed passenger configuration. This means that the aircraft has a mixed cabin lay out. (Ex. first/business/economy)

If choice a is selected set score to 1.

69. A carbon monoxide detector has to be replaced

- (a) monthly.
- (b) normally every 90 days.
- (c) daily.

If choice b is selected set score to 1.

70. What type of fire detection system is a fenwal detection system?

- (a) Continuous loop system.
- (b) Thermocouple system.

- (c) Spot system.

If choice a is selected set score to 1.

71. A systron-Donner fire detection system uses

- (a) air.
- (b) helium gas.
- (c) nitrogen gas.

If choice b is selected set score to 1.

72. Which Halon type doesn't use a pressurisation agent?

- (a) Halon 1211.
- (b) Halon 1001.
- (c) Halon 1301.

If choice c is selected set score to 1.

73. What does the red indicator disk on the fuselage indicate?

- (a) Indicates that the fire bottle has been fired.
- (b) Indicates a thermal discharged of the fire bottle.
- (c) Indicates that the fire bottle has not thermally discharged.

If choice b is selected set score to 1.

74. On a "Pull-and-turn" fire switch, when is the fire bottle discharged?

- (a) By pulling the handle up and turning the handle to left or right.
- (b) By pulling the handle up, turning it to one side and pressing the discharge button.
- (c) By pulling the handle up.

If choice a is selected set score to 1.

75. What indicates the yellow disk of a fire bottle (if installed) when it is ruptured?

- (a) That the bottle has been fired.
- (b) That the fire bottle is due for inspection.
- (c) That the pressure in the fire bottle was too high.

If choice a is selected set score to 1.

76. When should you use water-type portable fire extinguishers?

- (a) Water-type portable extinguishers can be used for every fire.
- (b) Water-type portable extinguishers are perfect solid combustible materials even metal fires. (ex: brakes and magnesium wheels). Do not use them on flammable liquid fires.
- (c) Water-type portable extinguishers are best for solid combustible fires (paper, fabrics, wood etc.). Never use them on electrical or flammable liquid fire.

If choice c is selected set score to 1.

77. Ground spoilers are used for

- (a) slowing down the aircraft in flight.
- (b) slowing down the aircraft on ground
- (c) attitude control.

If choice b is selected set score to 1.

78. Why is there a balance tab installed?

- (a) For reducing the effort to move the flight control.
- (b) For dynamic balancing of the flight control.
- (c) Where the flight controls are found rather light during initial flight-testing.

If choice a is selected set score to 1.

79. What is the main advantage for commercial aircraft by using active load control?

- (a) High manoeuvrability.
- (b) Reduced structural loading or airframe stress.
- (c) Increased aircraft speed.

If choice b is selected set score to 1.

80. What are slat track doors?

- (a) They can be opened to gain access to the slat tracks for maintenance.
- (b) They close the gap in the wing leading edge when the slats are extended.
- (c) They close the gap in the wing when the slats are retracted.

If choice b is selected set score to 1.

81. What happens when the pilot initiates a left turn, with spoiler augmentation?

- (a) Only the ailerons are used to roll the aircraft.
- (b) The LH aileron operate up and the spoilers on the left wing raise further up.
- (c) The RH aileron operate down and the spoilers on the right wing raise further up..

If choice b is selected set score to 1.

82. A small input in a primary servo system of a hydraulic powered flying control system initiates

- (a) the same power output as the input initiated.
- (b) a large power output.
- (c) a small power output.

If choice b is selected set score to 1.

83. What is Mach correction?

- (a) The increasing of the feel force at high Mach numbers.
- (b) The reduction of the feel force at high Mach numbers.
- (c) The adjustment of the stabilizer position to compensate for the nose down tendency.

If choice b is selected set score to 1.

84. What type of aerodynamic balancing system is used on modern, powered flight control surfaces?

- (a) None.
- (b) Balance tabs.
- (c) Servo tab.

If choice a is selected set score to 1.

85. Where is the stall warning sensor of an electric stall warning system located?

- (a) On the fuselage below the cockpit windows.
- (b) In the wing leading edge.
- (c) On the fuselage above the cockpit window.

If choice b is selected set score to 1.

86. Where is the trim tank located?

- (a) In the tail section.
- o (b) In the wing tips.
- o (c) In the wing box.

If choice a is selected set score to 1.

87. What is the procedure called where the fuel tank is made leak free during construction?

- o (a) A leak prevention plan.
- (b) A seal plan.
- o (c) A seal procedure.

If choice b is selected set score to 1.

88. Which statement is true regarding jet pumps?

- (a) Jet pumps use fuel pressure from the booster pumps to operate.
- o (b) Jet pumps are electrical pumps.
- o (c) Jet pumps are used to pump fuel to the jet engines.

If choice a is selected set score to 1.

89. What is an indirect drain valve used for?

- o (a) To drain fuel from the highest point of the tank.
- (b) To drain fuel when the valve is not located at the lowest part of the tank.
- o (c) To drain fuel when there is no drain valve installed.

If choice b is selected set score to 1.

90. What must be done to transfer fuel from one fuel tank to a fuel tank in the other wing?

- o (a) Not possible.
- o (b) All boost pumps must be on.
- (c) The crossfeed valve must be opened.

If choice c is selected set score to 1.

91. What does a fuel density of 1.0 indicate?

- o (a) The wrong type of fuel is in the tanks.

- (b) There is water in the fuel.
- o (c) There is no water in the fuel.

If choice b is selected set score to 1.

92. Which control switch would you never find on a refueling control panel?

- o (a) Fuel valve switches.
- o (b) Battery switch.
- (c) Fuel booster pump switches.

If choice c is selected set score to 1.

93. What is the purpose of longitudinal balance fuel systems?

- (a) Keep the centre of gravity as close as possible to the ideal position.
- o (b) Carry more fuel.
- o (c) Trim the aircraft so that there is no need for trimable horizontal stabilizers.

If choice a is selected set score to 1.

94. What is the advantage of a powerpack compared to a normal hydraulic system?

It is a....

- o (a) more powerful system.
- o (b) self-contained system that does not require electrical power from the main electrical system.
- (c) self-contained system requiring no supply from the main hydraulic system.

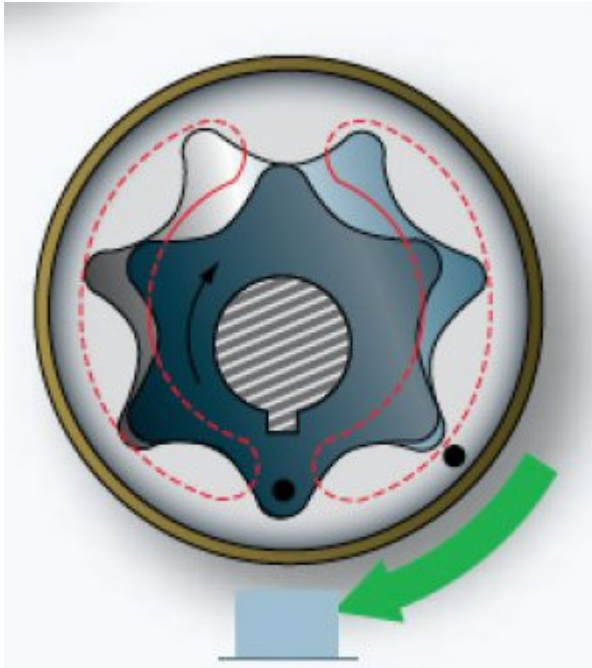
If choice c is selected set score to 1.

95. What defines a good hydraulic fluid?

- (a) A high fire point.
- o (b) A high viscosity.
- o (c) A low flash point.

If choice a is selected set score to 1.

96. What type of pump is shown in the figure below?



- (a) Hand pump
- (b) Ge-rotor pump
- (c) Gear pump

If choice b is selected set score to 1.

97. What is the name of the hydraulic filter located in the pump supply line from the reservoir?

- (a) A low pressure filter.
- (b) A return filter.
- (c) A micronic filter.

If choice a is selected set score to 1.

98. What monitors hydraulic pump pressure?

- (a) Pressure sensors.
- (b) Pressure switches.
- (c) They are not monitored.

If choice b is selected set score to 1.

99. Which component in a hydraulic system cannot be tested with a hydraulic cart (or Mule) ?

- (a) Pumps.
- o (b) Pressure sensors.
- o (c) Landing gear.

If choice a is selected set score to 1.

100. Which of the following is a visual ice detector?

- o (a) Radioactive ice detector.
- (b) Hot rod ice detector.
- o (c) Vibrating rod ice detector.

If choice b is selected set score to 1.

101. Engine anti-ice systems are powered by:

- o (a) Electrical heating mats.
- (b) Bleed air extracted from the on-side engine.
- o (c) Pneumatic bleed air.

If choice b is selected set score to 1.

102. Electrical ice protecting systems can be used for....

- (a) de-icing as well as anti-icing.
- o (b) De-icing only.
- o (c) Anti-icing only.

If choice a is selected set score to 1.

103. After inadvertently applying rain repellent, you must....

- o (a) immediately operate the windscreen wipers.
- (b) immediately wash the windscreen.
- o (c) the rain repellent dry before washing the windscreen.

If choice b is selected set score to 1.

104. Which of the following statements is true?

- (a) Drainmasts heaters can be controlled from the flight deck.
- (b) Drainmasts are NOT heated on the ground.
- (c) Drainmast heaters go to a higher setting when in flight.

If choice c is selected set score to 1.

105. How does a pneumatic rain removal system work?

- (a) By using bleed air to operate pneumatic actuators to move the wiper blades.
- (b) By heating the windscreen with hot bleed air.
- (c) By blowing high pressure bleed air over the windscreen.

If choice c is selected set score to 1.

106. What is "wheel track"?

- (a) The distance between left and right main landing gear.
- (b) The horizontal distance between main and nose landing gear.
- (c) The amount of degrees the aircraft deviates from the straight ahead track while taxing.

If choice a is selected set score to 1.

107. After an emergency landing gear extension the door will:

- (a) Close.
- (b) Close if hydraulic power is available.
- (c) Remain open.

If choice c is selected set score to 1.

108. A red light inside the landing gear selector lever is illuminated, this means:

- (a) The landing is up and locked.
- (b) The landing gear is down and locked.
- (c) The landing gear is not in selected position.

If choice c is selected set score to 1.

109. What is a fusible plug?

- (a) A type of plug to quickly deflate the tyre before replacing it.
- (b) A type of valve which opens when the tyre pressure gets too high.

- (c) A type of plug which melts when the tyre gets too hot.

If choice c is selected set score to 1.

110. What are creep indicators?

- (a) Shows how much a tyre has moved on the rim.
- o (b) A warning light in the cockpit to show that the aircraft has moved on the ground.
- o (c) Shows how much a tyre has moved compared to the inner tube.

If choice a is selected set score to 1.

111. During take-off and landing, the rudder pedals can give:

- (a) Limited nose wheel steering commands.
- o (b) No nose wheel steering commands.
- o (c) Full nose wheel steering commands.

If choice a is selected set score to 1.

112. What is the advantage that stress sensors have over other air/ground sensing systems?

- (a) Can measure aircraft weight.
- o (b) Is easier to replace.
- o (c) More reliable.

If choice a is selected set score to 1.

113. Which lights can be used to detect ice build-up?

- o (a) Position lights.
- (b) Wing scan lights.
- o (c) Runway turn-off lights.

If choice b is selected set score to 1.

114. What kind of light is used as cabin flood lighting?

- (a) Fluorescent tubes.
- o (b) Spot lights
- o (c) Incandescent lightbulbs.

If choice a is selected set score to 1.

115. Which statement is true?

- (a) When the internal emergency light switch is used both internal and external emergency light come on.
- o (b) When operating the external emergency light switch both internal and external lights come on.
- o (c) Operating the internal emergency light switch only turns on the internal emergency lights.

If choice a is selected set score to 1.

116. Cabin chemical oxygen generators are located in?

- (a) The passenger service units.
- o (b) The cargo hold.
- o (c) The overhead bins.

If choice a is selected set score to 1.

117. What is the chemical used in chemical oxygen generators?

- o (a) Sodium hydroxide
- (b) Sodium chlorate and iron
- o (c) Ozone

If choice b is selected set score to 1.

118. The pressure regulator on an oxygen demand system regulates the pressure to:

- o (a) 90 PSI
- (b) 70 PSI
- o (c) 400 PSI

If choice b is selected set score to 1.

119. A green disk on the side of the fuselage is missing, what does this indicate?

- (a) The maximum pressure in the oxygen cylinder has been exceeded.
- o (b) The oxygen bottle pressure is below operational limits.
- o (c) The maximum pressure in the oxygen supply lines has been exceeded.

If choice a is selected set score to 1.

120. Compared to other power sources, what is the benefit of using pneumatic systems?

- (a) Easier to detect leaks.
- (b) Power to weight ratio is better.
- (c) A fire can easily be put out by turn off the supply.

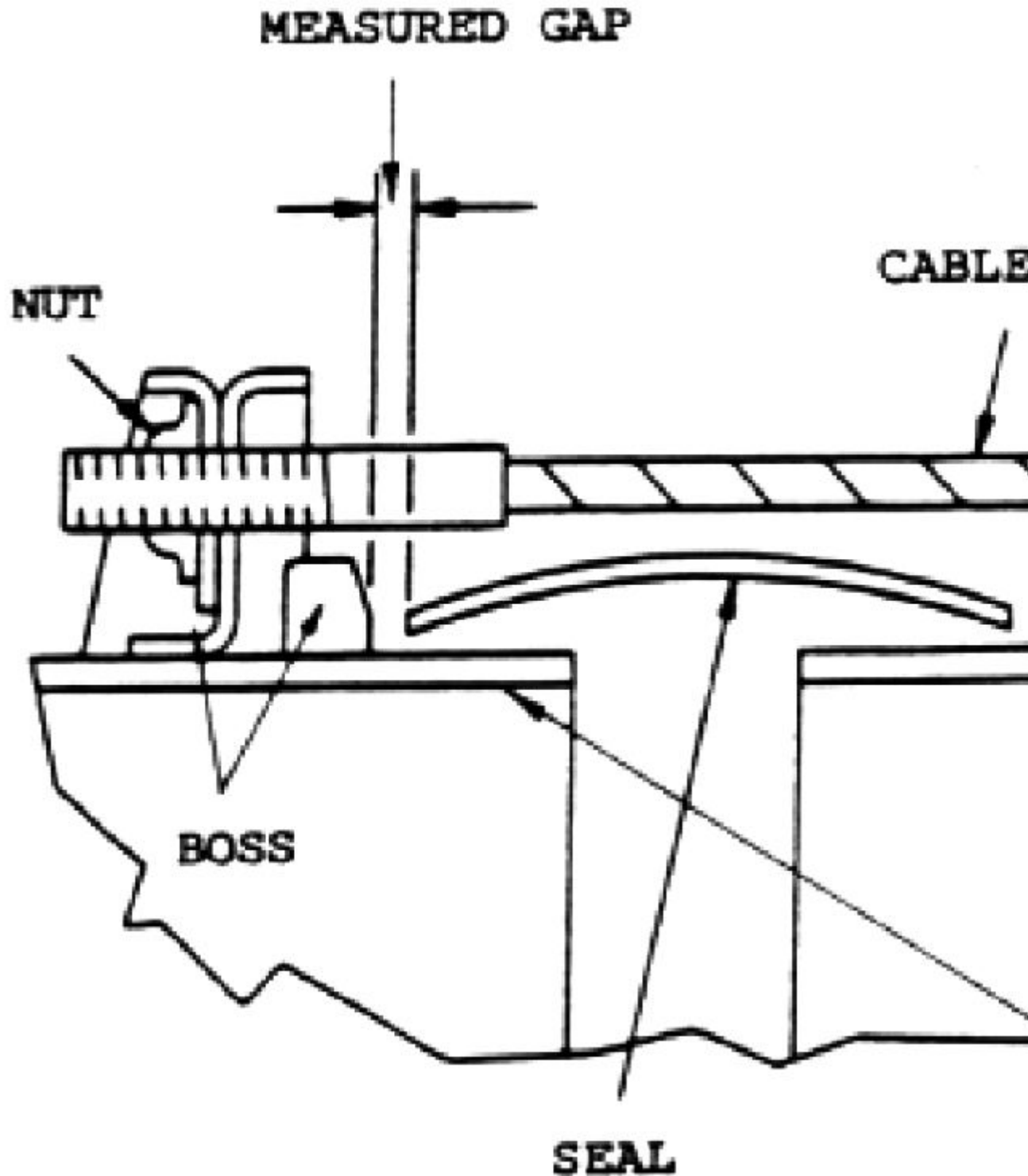
If choice b is selected set score to 1.

121. The bleed air from the APU can be used:

- (a) At all altitudes.
- (b) Up to 18.000ft
- (c) Up to 18.000m

If choice b is selected set score to 1.

122. When are cable attachment type of duct fitting joints used?



- (a) Ducts where large temperature changes exist.
- o (b) Ducts where high pressure changes exist.
- o (c) Large diameter ducts.

If choice a is selected set score to 1.

123. At low altitudes, what creates the vacuum for the water and waste system?

- (a) A vacuum pump.
- o (b) The pneumatic system using ventures.
- o (c) The pressure differential between the waste tank and the outside of the aircraft.

If choice a is selected set score to 1.

124. What is the reason that some large aircraft have 2 servicing panels for the water?

- o (a) To service 1 tank but from two locations.
- (b) To be able to drain the system completely.
- o (c) To service 2 tanks.

If choice b is selected set score to 1.

125. What is the toilet drain plug flapper valve used for?

- (a) Prevents the draining of toilet waste of tank when the cap is open.
- o (b) Prevents the waste tank from emptying in flight.
- o (c) Allows the tank servicing to be done via the drain hose.

If choice a is selected set score to 1.

126. Which bite test is initiated by the engineer?

- o (a) Continuous bite
- o (b) Start-up bite
- (c) Interruptive bite.

If choice c is selected set score to 1.

127. Besides data for the central maintenance system, what else can be uploaded via the data loading system?

- (a) Navigational database.
- o (b) GPS database.
- o (c) Entertainment data.

If choice a is selected set score to 1.

128. What type of data link is used by the electronic library system to communicate with ground operations?

- (a) Bidirectional gate link
- o (b) Arinc 429
- o (c) Mono-directional Ethernet link

If choice a is selected set score to 1.

129. Besides speed, temperature and pressure, what else is the engine monitored for?

- (a) Vibration
- o (b) Load
- o (c) Thrust

If choice a is selected set score to 1.

130. In an aircraft which has Integrated Modular Avionics....

- o (a) all sensors submit information to the flight deck, using WIFI.
- o (b) each passenger seat is equipped with an independent IMA unit, which can be used for In Flight Entertainment.
- (c) Flight Critical Information is processed by the IMA system.

If choice c is selected set score to 1.

131. Functions integrated in IMA are:

- o (a) Only for electrical powered systems.
- o (b) Only for hydraulic powered systems.
- (c) Basically for all aircraft systems.

If choice c is selected set score to 1.

132. The Boeing common computing resource (CCR) consists of:

- o (a) 2 General processor modules
- o (b) 16 General processor modules
- (c) 8 General processor modules

If choice c is selected set score to 1.

133. Airborne electrical AFDX cables are connected with:

- (a) 4-pins quadrax connections

- (b) 8-pins RJ-45 connections
- (c) Fibre-optic couplings.

If choice a is selected set score to 1.

134. Where is a passenger control unit used for?

- (a) Communication between passengers and flight crew.
- (b) Control the area lighting.
- (c) Selecting audio channels and reading lights.

If choice c is selected set score to 1.

135. Typical location of the Passenger Control Unit (PCU) is, in the:

- (a) Overhead Bin, above the passenger.
- (b) Passenger seat.
- (c) Avionics bay.

If choice b is selected set score to 1.

136. Where can the passenger data base be found?

- (a) Loaded in the cabin network server unit.
- (b) Only on a paper list in the cockpit for security.
- (c) Only at the airport of departure.

If choice a is selected set score to 1.

137. The Cabin Video monitoring system is used....

- (a) to assist pilots in case of emergencies in determining the structural condition of the cabin/fuselage.
- (b) to detect unruly passengers.
- (c) to record behaviour of passengers and cabin crew, and can be used as evidence in legal proceeding.

If choice b is selected set score to 1.

138. The satellite communication (SATCOM) system is connected to?

- (a) The open data network.
- (b) The isolated data network.

- o (c) The In Flight Entertainment system, only.

If choice a is selected set score to 1.

139. The Electronic Flight Bag (EFB) can be used for?

- o (a) Weight and Balance calculations.
- (b) Both answers are correct.
- o (c) Determining the maintenance history of the aircraft.

If choice b is selected set score to 1.

140. A dedicated maintenance laptop using WIFI can be used for?

- o (a) Installing newly released navigation software.
- o (b) Accessing to see and delete data from the Aircraft File Server.
- (c) Accessing aircraft fault data.

If choice c is selected set score to 1.

***If assessment score is 75% to 100% Pass
If assessment score is 0% to 74% Fail***