Question block created by wizard

This exam contains 140 questions.

1. The variable incidence stabilizer provides....

o (a) Roll Control.
o (b) short term pitch change.

• (c) long term pitch change.

If choice c is selected set score to 1.

2. Where are elevons installed?

o (a) To each side of the aircraft on the leading edge of the wing.
o (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) Horn Balance

- o (b) Inset Hinges
- o (c) Aerodynamic balance panel

If choice a is selected set score to 1.

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

- (a) as a fluid.

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

If choice a is selected set score to 1.

5. What is the effect on a supersonic airstream passing through a normal shock wave?

- o (a) It increases in speed.

- (b) It slows down to subsonic speed.

- o (c) Its speed is reduced to ZERO.

If choice b is selected set score to 1.

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

- (a) Divergent duct-intake.

- o (b) Pilot intake.
- o (c) Three-shock intake.

If choice a is selected set score to 1.

7. What regulation is applicable for construction of large aircraft?

- (a) All new designed large aircrafts must comply to the EASA certification specification CS-25.

- o (b) The manufacturing of an aircraft is regulated under the EASA Part-145.
- o (c) Each manufacturing country applies his own regulation. This is accepted all over the world by the Chicago convention of 1964.

If choice a is selected set score to 1.

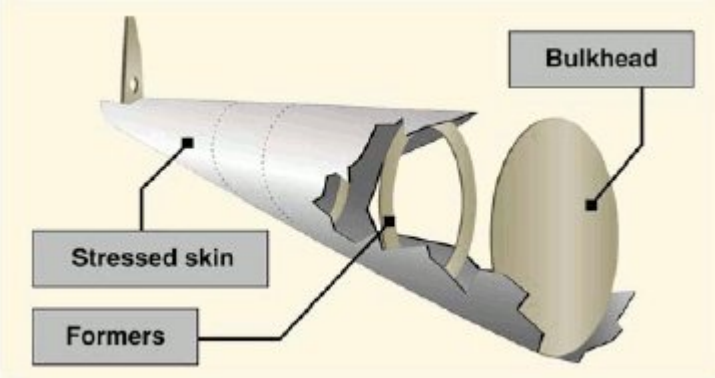
8. What is the main reason of having drains in the aircraft structure?

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

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

If choice a is selected set score to 1.

9. What type of construction is shown in the figure below?



- o (a) Cantilever construction.
- • (b) Monocoque
- o (c) Semi-monocoque

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

If choice c 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. What is commonly used to level an commercial aircraft?

- o (a) A clinometer.
- o (b) A surveyors tape measure.
- • (c) A plump bob and spirit level.

If choice c is selected set score to 1.

13. Which of the following compartments is usually unpressurized?

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

If choice c is selected set score to 1.

14. When an aircraft is transporting dangerous goods ....

- o (a) there is no need for special precautions.
- o (b) there will be separated goods in special containers.
- • (c) there will be special flight conditions.

If choice c 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?

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

If choice c is selected set score to 1.

16. Access into an integral fuel tank by:

- o (a) There is no access into integral tanks they are sealed units and are removed as a whole.
- o (b) Manhole covers on the upper wing surface.
- • (c) Manhole covers on the lower wing surface.

If choice c is selected set score to 1.

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

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

If choice a is selected set score to 1.

18. How is the vertical stabilizer attached to the fuselage?

- o (a) Bonded
- • (b) Bolted

- (c) Riveted

If choice b is selected set score to 1.

19. Elevator range of movement is:

- (a) Smaller in the up-movement.
- (b) The same up and down.
- (c) Larger in the up movement.

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 equiped with aerodynamic balance tabs.
- (c) Aircraft controlled with fly-by-wire.

If choice c is selected set score to 1.

21. Titanium and steel are used in which areas of the nacelle?

- (a) Fan cowl doors.
- (b) Combustion chamber and exhaust.
- (c) The intake and exhaust.

If choice b is selected set score to 1.

22. The purpose of a fire seal is to prevent....

- (a) fire reaching the components contained inside the firewalls.
- (b) hot air from the engine core circulating in the fan case area.
- (c) fire reaching the passenger cabin.

If choice b is selected set score to 1.

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

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

If choice c is selected set score to 1.

24. Which of the following statements is **incorrect**?

A turbo compressor....

- (a) is used as a supplemental use source of bleed air.
- (b) can be switched on and off by the crew.

- (c) is used on turbo-prop and piston engine.

If choice c is selected set score to 1.

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

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

- (c) Hot air is added to it to obtain the desired cabin temperature.

If choice c is selected set score to 1.

26. To compensate for the discomfort caused by the extraction of water from the air, what is sometimes used on long-haul aircraft?

- (a) Water separation
- (b) Water injection

- (c) Humidifiers

If choice c is selected set score to 1.

27. Which of the following statements is correct?

- (a) A vapour cycle machine can be used for pressurization.

- (b) A vapour cycle machine is used if there is not enough bleed air available.

- (c) A vapour cycle machine cannot be used on piston engine aircraft.

If choice b is selected set score to 1.

28. In a double heat exchanger system, which heat exchanger receives cooling first?

- (a) The secondary main heat exchanger.

- (b) The primary heat exchanger.
- (c) They both receive cooling at the same time.

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?

- o (a) Hot air from the anti-ice valve will close as protection the pack flow valve.
- o (b) Hot air will bypass the air cycle machine (ACM) and so the turbine will slow down in rpm.
- • (c) 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.

If choice c 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. Which of the following modes of pressurization places the highest load demands on the aircraft structure?

- o (a) Unpressurized.
- • (b) Isobaric mode.
- o (c) Constant-differential pressure.

If choice b is selected set score to 1.

32. What are the basic flight deck indications for pressurization?

- o (a) Cabin altitude, ambient temperature and pressure differential.
- o (b) Aircraft altitude, rate of climb and atmospheric pressure.
- • (c) Cabin altitude, cabin rate of climb and pressure differential.

If choice c is selected set score to 1.

33. When operating the outflow valve in manual/emergency mode, which motor is used?

- o (a) Both AC and DC motors.
- o (b) The AC motor.
- • (c) The DC motor.

If choice c is selected set score to 1.

34. A ventilation fan has shut-down due to an overheat condition.

The crew can....

- (a) restart the fan after it has cooled down.

o (b) restart the fan immediately by resetting the control switch to 'off' and 'on' again.
o (c) not restart the fan in flight. Ground crew must reset the system first.

If choice a is selected set score to 1.

35. What protects the aircraft from over-pressurization?

o (a) Cabin pressure controller.

- (b) The positive pressure relief valve.

o (c) The outflow valve.

If choice b is selected set score to 1.

36. Which of the following instruments needs pitot pressure to operate?

- (a) Airspeed indicator.

o (b) Altimeter
o (c) Horizontal situation indicator.

If choice a is selected set score to 1.

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

o (a) The horizontal situation indicator.

- (b) The attitude director indicator.

o (c) The I.L.S. indicator.

If choice b is selected set score to 1.

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

- (a) A remote reading compass.

o (b) An altitude director indicator.
o (c) A direct reading magnetic compass.

If choice a is selected set score to 1.

39. When does the stick shaker activate?

- (a) Prior to the stall occuring.

o (b) When a stall occurs.
o (c) After stall occurs.

If choice a is selected set score to 1.

40. The partial compass format of an EHSI shows:

o (a) A 180 degree arc of a compass rose.
o (b) A full compass rose.

- (c) A 90 degree arc of a compass rose.

If choice c is selected set score to 1.

41. On a multispool turbofan engine, which speed is always displayed?

- (a) High pressure rotor speed.

o (b) Fan speed.
o (c) Gearbox speed.

If choice a is selected set score to 1.

42. In a Fail Passive System;

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

- (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....

o (a) thrust commands for the engine trims.

- (b) computed steering commands to the command bars of the ADI and/or to an autopilot system.

o (c) data for the air data computers.

If choice b is selected set score to 1.

44. The Cockpit Voice Recorder....

o (a) contains also all engine and systems parameters.

- (b) records all voice information of the cabin crew and the passengers.

- (c) allows a minimum of 30 minutes of recording.

If choice c is selected set score to 1.

45. The device that starts emitting its location in the event of a crash is called:

- (a) a Selcal
- (b) a GPWS

- (c) an ELT

If choice c is selected set score to 1.

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

- (a) Airspeed, Altitude and temperature.

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

If choice a is selected set score to 1.

47. The DME Distance Measurement gives information about:

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

- (c) the slant range to the selected ground station.

If choice c is selected set score to 1.

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

- (a) NiCad battery. Prevented by never fully discharging the battery.

- (b) NiCad battery. Prevented by always fully discharging the battery.
- (c) Lead-acid battery. Prevented by fast charging battery.

If choice a is selected set score to 1.

49. The electrolyte in a NiCd battery is?

- (a) Alkaline based.

- (b) Acid based.
- (c) Lithium based.

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

If choice c is selected set score to 1.

51. What is the dis-advantage of series wound generators?

- o (a) When the aircraft electrical load increases, the output voltage remains the same.
- o (b) When the aircraft electrical load increases, the output current increases.
- • (c) When the aircraft electrical load increases, the output voltage increases.

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 from the flight deck.
- o (c) possible during Line Maintenance.

If choice a is selected set score to 1.

53. What type of generator / alternator is used in a variable speed constant frequency system?

- o (a) Brushless alternator.
- o (b) DC generator.
- • (c) DC alternator.

If choice c is selected set score to 1.

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

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

If choice a is selected set score to 1.

55. Which of the following statements about the ram air turbine is false?

- o (a) The RAT can sometimes also supply hydraulic power.
- • (b) The RAT can deploy automatically on the ground.

- o (c) The RAT can be deployed manually.

If choice b is selected set score to 1.

56. Which of the following is NOT part of a three-unit voltage regulator?

- (a) Open phase protection.

- o (b) Reverse current relay.
- o (c) Current limiter.

If choice a is selected set score to 1.

57. Emergency lighting is part of which service?

- (a) Vital.

- o (b) Essential.
- o (c) Ground.

If choice a is selected set score to 1.

58. Transformer rectifiers are used for:

- (a) Converting AC into DC.

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

If choice a is selected set score to 1.

59. What is the primary function of a current transformer in an aircraft?

- o (a) Measure voltage in an electrical circuit.
- o (b) Step-up the current in a circuit.

- (c) Measure current in an electrical circuit.

If choice c is selected set score to 1.

60. Where in the circuit would a fuse be installed?

- o (a) As close to the unit to be protected as much as possible.

- (b) As close to the power source as possible.

- o (c) Where access to replace the fuse is easiest.

If choice b is selected set score to 1.

61. What is 'no breaks power transfer'?

- (a) Power supply is transferred from one source to another while bypassing the circuit breakers.
- (b) Power supply remains with the same source even though power transfer to another source has been selected.

- (c) Power supply is transferred from one source to another without interrupting the supply.

If choice c is selected set score to 1.

62. What caution action should we take when a seat cover is very dirty?

- (a) Remove and replace the seat cover for dry cleaning.

- (b) Remove and replace the seat cover for dry cleaning. Note the number of times this cover has been cleaned because the fire resistance will degrade.

- (c) Remove and replace the seat cover. Discard the old cover. Use always plastic gloves and a mouth mask for bacterial protection.

If choice b 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 aircraft certified for more than 44 passengers need exits equipped with slides.
- (b) When the aircrafts flies longer than 90 minutes over water.

- (c) All exits with a door sill above 1,8 meter have to be equipped with slides.

If choice c 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, it is the personal life vest of the flight attendant and should be inspected after each demonstration by the flight attendant.
- (c) Yes, but only if the life time is not expired.

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, 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.

- (b) Yes, all the seat functions can always be operated manually.

- o (c) No. The seat is completely blocked in his its last position.

If choice b is selected set score to 1.

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

- (a) No, on large aircrafts the observer seat is usually very comfortable, but has not as many adjustment possibilities as the pilot seats.

- o (b) 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.
- o (c) Yes

If choice a is selected set score to 1.

67. How are galleys installed in the cabin?

- (a) They are usually fixed to the floor track with additional rods attached on side and top structural frames.

- o (b) They are fixed to the floor panels and sealed with silicon's.
- o (c) Since they are made from composite panels they are fixed to the floor tracks.

If choice a is selected set score to 1.

68. What is the advantage of an integrated air stair?

- o (a) You are independent of ground equipment, but the door can no longer be used as an emergency exit.

- (b) You are independent of ground equipment.

- o (c) You are independent of ground equipment, there are no major disadvantages since the stair is build that way that it makes a part of the structural strength of the aircraft.

If choice b is selected set score to 1.

69. A carbon monoxide detector has to be replaced .....

- o (a) monthly.

- (b) normally every 90 days.

- o (c) daily.

If choice b is selected set score to 1.

70. What is the sniffer used for?

- o (a) To detect smoke on the flight deck.

- o (b) To detect fire in the avionics compartment.

- • (c) To detect smoke in avionics compartment.

If choice c is selected set score to 1.

71. In a continuous loop fire detection system is the Kidde system a ....

- o (a) bi-metallic spot type.

- • (b) thermistor type.

- o (c) pneumatic type.

If choice b is selected set score to 1.

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

- o (a) Halon 1001.
- o (b) Halon 1211.

- • (c) Halon 1301.

If choice c is selected set score to 1.

73. Some aircraft are fitted with 2 types of fire bottles: dump and metered bottles, used in the cargo compartment. Why is this?

- o (a) To extinguishing different types of fires.
- o (b) To ensure there is enough extinguishing agent for the whole aircraft.

- • (c) To ensure the concentration of extinguishing agent remains high enough for 180 minutes.

If choice c is selected set score to 1.

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

- o (a) Indicates that the fire bottle has not thermally discharged.

- • (b) Indicates a thermal discharged of the fire bottle.

- o (c) Indicates that the fire bottle has been fired.

If choice b is selected set score to 1.

75. Pushing the fire test button does not test:

- o (a) Fire detectors.
- o (b) Indications and warnings.

- • (c) Squibs.

If choice c is selected set score to 1.

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

- o (a) 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.
- • (b) Water-type portable extinguishers are best for solid combustible fires (paper, fabrics, wood etc.). Never use them on electrical or flammable liquid fire.
- o (c) Water-type portable extinguishers can be used for every fire.

If choice b is selected set score to 1.

77. Ground spoilers are used for ....

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

If choice b is selected set score to 1.

78. Which of the following control systems for the horizontal stabilizer trim has the highest priority?

- o (a) Mach/speed trim
- • (b) Manual trim
- o (c) Autopilot trim

If choice b is selected set score to 1.

79. What is gust suppression?

- • (a) It makes the quality of the passenger ride better in the aft portion of the fuselage.
- o (b) It moves the elevator in the opposite direction of movement.
- o (c) A locking mechanism on the ground spoilers.

If choice a is selected set score to 1.

80. What are slat track doors?

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

If choice c is selected set score to 1.

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

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

If choice b is selected set score to 1.

82. In a manual operated control system the control surfaces are moved by ....

- • (a) cables and pushrods.
- o (b) only pushrods.
- o (c) only cables.

If choice a is selected set score to 1.

83. Which flight control is used to compensate for dutch roll.

- o (a) Ailerons.
- • (b) Rudder.
- o (c) Elevators.

If choice b is selected set score to 1.

84. What type of aerodynamic balancing is used in the rudder?

- (a) Horn Balance

o (b) Trim Tab
o (c) Inset Hinges

If choice a is selected set score to 1.

85. Which of the following DO NOT actively prevent the aircraft from stalling?

o (a) Auto slats.
o (b) Stick pusher.

- (c) Stick shaker.

If choice c is selected set score to 1.

86. Why does water in the fuel pose a danger?

o (a) The water could freeze inside the fuel tanks and block the fuel pumps.

- (b) The water could freeze in the fuel filter and block the fuel flow to the engine.

o (c) The water could enter the engine fuel control unit and damage it.

If choice b 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 seal procedure.
- o (b) A leak prevention plan.
- • (c) A seal plan.

If choice c is selected set score to 1.

88. Which statement is true regarding jet pumps?

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

If choice c is selected set score to 1.

89. What is probable cause for a fuel tank overpressure protection to be activated?

- o (a) The aircraft has been defueled by suction defueling.
- • (b) The NACA vent scoop is blocked.
- o (c) The fuel tanks have been overfilled.

If choice b is selected set score to 1.

90. Engines receive fuel from, which fuel tank?

- o (a) Always the centre wing fuel tank
- • (b) It's own main tank
- o (c) Collector

If choice b is selected set score to 1.

91. What does a fuel density of 1.0 indicate?

- o (a) There is no water in the fuel.
- o (b) The wrong type of fuel is in the tanks.
- • (c) There is water in the fuel.

If choice c is selected set score to 1.

92. If there is an overfill condition in the refueling system and sensors are not working, the fuel will spill out ...

- o (a) into the surge tank.

- (b) onto the ground.

o (c) in a special overspill fuel tank.

If choice b is selected set score to 1.

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

o (a) Carry more fuel.
o (b) Trim the aircraft so that there is no need for trimable horizontal stabilizers.

- (c) Keep the centre of gravity as close as possible to the ideal position.

If choice c is selected set score to 1.

94. Which fluid goes through the hydraulic heat exchangers inside the main fuel tanks?

- (a) Pump case drain fluid.

o (b) Pump return fluid.
o (c) Pump supply fluid.

If choice a is selected set score to 1.

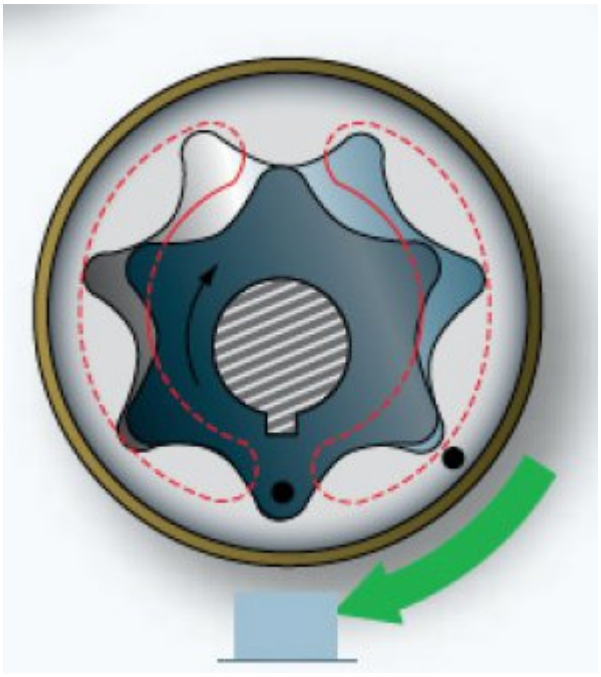
95. What can prevent foaming of the hydraulic fluid in a reservoir at an altitude higher than 20.000 feet?

o (a) A integral reservoir.
o (b) A reservoir with a piston to separate the air from the oil.

- (c) Pressurize the reservoir.

If choice c is selected set score to 1.

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



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

If choice b is selected set score to 1.

97. What prevents nuisance blockage warnings of a filter at cold temperatures?

- • (a) A thermal lockout on the blockage indicator.
- o (b) A thermal bypass valve on the filter.
- o (c) A manual reset switch on the flight deck.

If choice a is selected set score to 1.

98. What is the safety device called that cuts off the hydraulic flow after a certain amount of fluid has passed through it?

- o (a) A throttling valve.
- o (b) A check valve.
- • (c) Hydraulic fuse.

If choice c is selected set score to 1.

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

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

If choice c is selected set score to 1.

100. Which type of ice poses the biggest threat to the safety of an aircraft?

- o (a) Gleam Ice
- • (b) Clear Ice
- o (c) Dry Ice

If choice b is selected set score to 1.

101. What type of valve is the engine anti-ice valve?

- o (a) Pressure regulation valve.
- o (b) Shut-off valve.
- • (c) Pressure regulating and shut off valve.

If choice c is selected set score to 1.

102. Which system is used only for de-icing an air-intake of a turbo propeller aircraft?

- o (a) Electrical.
- o (b) Hot bleed air.
- • (c) Pneumatic or mechanical.

If choice c is selected set score to 1.

103. Rain repellant is stored in:

- • (a) A disposable canister.
- o (b) An unpressurised canister.
- o (c) A rechargeable pressurised tank.

If choice a is selected set score to 1.

104. Air data probes are ....

- • (a) electrical heated.

- o (b) de-iced with pneumatic air.
- o (c) anti-iced with bleed air.

If choice a is selected set score to 1.

105. What is the purpose of the parallel motion device on a wiper system?

- o (a) Ensures the blade maintains contact with the screen.
- • (b) Ensures the blade remains parallel with the screen.
- o (c) Ensures the blade moves in normal arc.

If choice b is selected set score to 1.

106. What is the function of the oil in a gas/oil shock absorber?

- o (a) Lubricates the piston.
- o (b) Absorbs heat.
- • (c) Controls the recoil.

If choice c is selected set score to 1.

107. How is a landing gear mechanical locked down?

- • (a) By a down-lock actuator.
- o (b) by lock pins.
- o (c) By over-centring links.

If choice a is selected set score to 1.

108. Which indications are shown when the landing gear is up and locked?

- • (a) Nothing.
- o (b) Three red lights.
- o (c) Three green lights.

If choice a is selected set score to 1.

109. What is the most common type of wheel bearing used?

- o (a) Bail bearings.
- • (b) Conical roller bearings.
- o (c) Needle bearings.

If choice b is selected set score to 1.

110. Where would you find a chined tyre?

- (a) On the nose gear tyre.

o (b) On large military jets main wheels.
o (c) On the tail gear tyre.

If choice a is selected set score to 1.

111. What is the purpose of body gear steering?

o (a) To be able to turn more sharply.
o (b) To be able to steer the aircraft if the nose gear steering fails.

- (c) To reduce the wear on the tyres in sharp turns.

If choice c is selected set score to 1.

112. A proximity sensor which is in 'target far' condition is said to be the equivalent of:

o (a) A failed switch.

- (b) An open switch.

o (c) A closed switch.

If choice b is selected set score to 1.

113. Where will you find taxi lights?

o (a) In the wing root.
o (b) In the wing leading edges.

- (c) On the nose landing gear.

If choice c is selected set score to 1.

114. Which lights are located in the passenger service units?

- (a) Spotlights.

o (b) Flood lights.
o (c) Cabin emergency lights.

If choice a is selected set score to 1.

115. To ensure correct operation of the emergency lighting system, what must be done at specific maintenance intervals?

- o (a) Recharge the battery packs.
- • (b) Replace the battery pack.
- o (c) Replace all emergency light bulbs.

If choice b is selected set score to 1.

116. What are the reasons for automatic deployment of emergency oxygen?

1. Cabin depressurization.
2. Smoke in the cabin.
3. Insufficient cabin air in-flow.

- • (a) 1 + 3
- o (b) 1 + 2
- o (c) 1 + 2 + 3

If choice a is selected set score to 1.

117. How does an "on board oxygen generation system" (OBOGS) produce oxygen?

- o (a) By using sodium chloride.
- • (b) By using molecular filters.
- o (c) By electrolysis of water.

If choice b is selected set score to 1.

118. When the N/100% selector is placed in the 'N' position on a diluter demand regulator, what is the oxygen flow supplied?

- • (a) A mixture of oxygen and cabin air while the user is inhaling.
- o (b) 100% oxygen while he user is inhaling.
- o (c) A mixture of oxygen and cabin air at a constant flow.

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

If choice a is selected set score to 1.

120. What type of pneumatic system would have a water separator installed?

- o (a) Engine bleed air system.
- o (b) Low pressure system.
- • (c) High pressure system.

If choice c is selected set score to 1.

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

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

If choice a is selected set score to 1.

122. On a twin spool auxiliary power unit, what is controlled by the VGV's?

- o (a) A load compressor.
- o (b) A pressure regulating valve.
- • (c) The speed of the turbine and also of the compressor.

If choice c is selected set score to 1.

123. In which way does the pneumatic system interface with the fire protection system?

- o (a) A fire in the bleed supply system activates the fire extinguishing system.
- • (b) Pulling the fire handle of one engine turns off its bleed supply.
- o (c) Pulling the fire handle on one engine turns off the complete bleed air system.

If choice b is selected set score to 1.

124. Greywater from the sinks and galleys will be....

- o (a) collected in a waste tank.
- • (b) dumped overboard.
- o (c) recycled and used to flush the toilets.

If choice b is selected set score to 1.

125. What happens if the safety plug (doughnut) is not fitted to the drain pipe?

- (a) The drain cap cannot be closed.

o (b) The waste tank will leak.
o (c) A warning light will illuminate on the flight deck.

If choice a is selected set score to 1.

126. Which type of messages are relevant to the aircraft minimum equipment list (MEL)?

o (a) Maintenance Memo

- (b) Status messages

o (c) Fault codes.

If choice b is selected set score to 1.

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

o (a) GPS database.

- (b) Navigational database.

o (c) Entertainment data.

If choice b is selected set score to 1.

128. How is the information in the electronic library organized?

- (a) Task Oriented

o (b) Chronological
o (c) Function-oriented.

If choice a is selected set score to 1.

129. On modern aircraft, which mandatory component is used to monitor aircraft structure?

o (a) Central maintenance system.

- (b) Flight data recorder.

o (c) Quick access recorder.

If choice b is selected set score to 1.

130. In an aircraft which has Integrated Modular Avionics.

- o (a) One "Black" box cover one functionality.
- o (b) Each functionality is split in two dedicated 'black' boxes for redundancy
- • (c) One "black" box hosts multiple application / functionalities.

If choice c is selected set score to 1.

131. One of the main advantages of Integrated Modular Avionics (IMA) is?

- • (a) Less computers with more applications on board, which result in weight savings.
- o (b) More computers on board, which result in faster data communication.
- o (c) More computers on board, which result in more system automation.

If choice a is selected set score to 1.

132. Software which is used in IMA comply with:

- • (a) Arinc 653 specifications
- o (b) Arinc 100 specifications
- o (c) Arinc 429 specifications

If choice a is selected set score to 1.

133. Airborne electrical AFDX cables are connected with:

- o (a) Fibre-optic couplings.
- • (b) 4-pins quadrax connections
- o (c) 8-pins RJ-45 connections

If choice b is selected set score to 1.

134. The cabin video monitoring system consists of....

- • (a) cockpit door surveillance and cabin video monitoring.
- o (b) a passenger service module and a video camera.
- o (c) information signs and cabin zone units.

If choice a is selected set score to 1.

135. The ability to send and receive emails by passengers is a typical example of:

- • (a) A cabin network System/Server

- o (b) A public address unit
- o (c) Common Core System

If choice a is selected set score to 1.

136. When a modern aircraft is on the ground and parked at a gate. The InFlight Entertainment (IFE) system can receive and transmit data, using?

- (a) WIFI

- o (b) An AFDX cable connection
- o (c) HF Radio

If choice a is selected set score to 1.

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

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

- (c) to detect unruly passengers.

If choice c is selected set score to 1.

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

- (a) The open data network.

- o (b) The In Flight Entertainment system, only.
- o (c) The isolated data network.

If choice a is selected set score to 1.

139. Where is the Electronic Flight Bag used for?

- (a) To reduce and replace paper-based reference material, used by pilots.

- o (b) To communicate with the Flight-Operations department of the airline.
- o (c) To interact with the critical flight systems and to assist the pilot in an optimized flight-path.

If choice a is selected set score to 1.

140. Can the flight crew of an Airbus A380 or Boeing 787 access real-time meteorological information?

- o (a) No

- (b) Yes, when a datalink is available.

o (c) Yes, but only when an HF connection is available.

If choice b is selected set score to 1.

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