

Question block created by wizard

This exam contains 140 questions.

1. The variable incidence stabilizer provides....

- (a) short term pitch change.
- (b) Roll Control.
- (c) long term pitch change.

If choice c is selected set score to 1.

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



- (a) Aerodynamic balance panel
- (b) Inset Hinges
- (c) Horn Balance

If choice c is selected set score to 1.

3. Where are elevons installed?

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

If choice b is selected set score to 1.

4. What has the biggest effect on the speed of sound?

- (a) Humidity.
- (b) Pressure.
- (c) Temperature.

If choice c is selected set score to 1.

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

- (a) Its speed is reduced to ZERO.
- (b) It slows down to subsonic speed.
- (c) It increases in speed.

If choice b is selected set score to 1.

6. What is the main disadvantage of wing sweep back?

- (a) Wingtip stall before the wing roots.
- (b) Less lift than a straight wing.
- (c) Not useable on T-tailed aircraft.

If choice a is selected set score to 1.

7. Why do job cards mention zones?

- (a) They will identify a certain area of the aircraft to inspect or to locate the specific work area.
- (b) The zone codes are the primary digits to find the part location in the parts catalogue.
- (c) These are just codes for the engineering department to analyse the damage found in certain areas during maintenance.

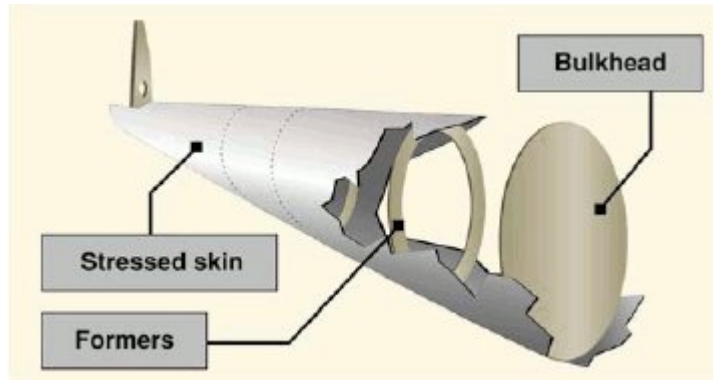
If choice a is selected set score to 1.

8. What is the function of the Static dischargers?

- (a) They will protect the communication systems against a lightning strike.
- (b) They function as a communication antenna.
- (c) In case of a static charge they lead the electrical energy off the aircraft.

If choice c is selected set score to 1.

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



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

If choice c is selected set score to 1.

10. What is the most widely used assembly method in aircraft construction?

- (a) Bonding.
- (b) Solid rivets.
- (c) Blind rivets.

If choice b is selected set score to 1.

11. "DINITROL" and "LPS-3" are what kind of surface protection?

- (a) Phosphate coating.
- (b) Water displacing fluid.
- (c) Paint.

If choice b is selected set score to 1.

12. What is commonly used to level an commercial aircraft?

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

If choice b is selected set score to 1.

13. Where would you find rapid depressurization panels?

- (a) The wall linings of the cargo hold.
- o (b) In the pressure bulkheads.
- o (c) The bottom of the passenger cabin side walls.

If choice a is selected set score to 1.

14. When an aircraft is transporting dangerous goods

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

If choice a is selected set score to 1.

15. The upper wing surface is made of AL-7075 to withstand

- o (a) tension loads.
- o (b) shear loads.
- (c) compression loads.

If choice c is selected set score to 1.

16. Access into an integral fuel tank by:

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

If choice c is selected set score to 1.

17. What kind of stability provides the horizontal stabilizer?

- o (a) Directional.
- o (b) Lateral.
- (c) Longitudinal.

If choice c is selected set score to 1.

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

- o (a) Riveted
- o (b) Bonded

- (c) Bolted

If choice c is selected set score to 1.

19. Elevator range of movement is:

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

If choice a is selected set score to 1.

20. How can "FLUTTER" of the flight control surfaces be reduced?

- (a) By mass balancing.
- o (b) By aerodynamic balancing.
- o (c) By using trim tabs.

If choice a is selected set score to 1.

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

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

If choice a is selected set score to 1.

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

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

If choice c is selected set score to 1.

23. The RAM air supply is used....

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

If choice a is selected set score to 1.

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

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

If choice c is selected set score to 1.

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

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

If choice b is selected set score to 1.

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

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

If choice a is selected set score to 1.

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

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

If choice b is selected set score to 1.

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

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

If choice a is selected set score to 1.

29. Why are mufflers installed in the air-conditioning distribution system?

- (a) To reduce the flow of air to the suppliers.

- (b) As low frequency noise suppressors.
- o (c) For heat regulation in the distribution system.

If choice b is selected set score to 1.

30. How is the pack temperature controlled?

- o (a) By the ram air doors and the trim air valve.
- o (b) By the turbine bypass valve and the trim air valve.
- (c) By the turbine bypass valve and ram air doors.

If choice c is selected set score to 1.

31. The constant-differential pressure operation mode cabin is when the cabin altitude....

- o (a) remains the same as the flight altitude.
- o (b) remains constant as the flight altitude changes.
- (c) is maintained at a constant amount above the outside ambient air pressure.

If choice c is selected set score to 1.

32. During the take-off mode the outflow valves are in the pre-pressurisation position. How do the outflow valves move?

- (a) Move towards closed.
- o (b) Move to open position.
- o (c) In the modulating mode.

If choice a is selected set score to 1.

33. Ditching control is used for

- (a) closing all valves and inlets.
- o (b) rapidly aircraft depressurisation.
- o (c) deploying life rafts.

If choice a is selected set score to 1.

34. What protects the aircraft from over-pressurization?

- o (a) The outflow valve.
- o (b) Cabin pressure controller.
- (c) The positive pressure relief valve.

If choice c is selected set score to 1.

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

- (a) Hydraulically
- (b) Manually
- (c) Electrically

If choice b is selected set score to 1.

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

- (a) Altimeter
- (b) Airspeed indicator.
- (c) Horizontal situation indicator.

If choice b is selected set score to 1.

37. Which of the following instruments is NOT a gyroscopic instrument?

- (a) Altitude director indicator
- (b) Turn co-ordinator
- (c) Slip indicator

If choice c is selected set score to 1.

38. What is "compass swing"?

- (a) A maintenance task to reduce the deviation error of a magnetic compass.
- (b) A mount for a magnetic compass to minimize the "swing" of the compass card.
- (c) A maintenance task to align a magnetic compass true north.

If choice a is selected set score to 1.

39. When does the stick shaker activate?

- (a) After stall occurs.
- (b) Prior to the stall occurring.
- (c) When a stall occurs.

If choice b is selected set score to 1.

40. The partial compass format of an EHSI shows:

- o (a) A full compass rose.
- (b) A 90 degree arc of a compass rose.
- o (c) A 180 degree arc of a compass rose.

If choice b is selected set score to 1.

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

- o (a) Fan speed.
- o (b) Gearbox speed.
- (c) High pressure rotor speed.

If choice c is selected set score to 1.

42. To provide the correct amount of rudder deflection to cancel the Dutch Roll is also called;

- o (a) pitch trim
- (b) yaw damping
- o (c) glide slope

If choice b is selected set score to 1.

43. In a Fail Passive System;

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

If choice b is selected set score to 1.

44. 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.

45. The Cockpit Voice Recorder....

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

If choice b is selected set score to 1.

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

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

If choice a is selected set score to 1.

47. The DME Distance Measurement gives information about:

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

If choice a is selected set score to 1.

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

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

If choice c is selected set score to 1.

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

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

If choice c is selected set score to 1.

50. The output of a single coil generator is

- (a) a sine-wave.

- (b) a flat line.
- (c) a saw foot.

If choice a is selected set score to 1.

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

- (a) The yoke.
- (b) The armature.
- (c) The brushes.

If choice a is selected set score to 1.

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

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

If choice c is selected set score to 1.

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

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

If choice b is selected set score to 1.

54. The ram air turbine will supply....

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

If choice a is selected set score to 1.

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

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

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?

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

If choice c is selected set score to 1.

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

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

If choice b is selected set score to 1.

59. 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.

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

- o (a) Where access to replace the fuse is easiest.
- (b) As close to the power source as possible.
- o (c) As close to the unit to be protected as much as possible.

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 without interrupting the supply.
- o (b) Power supply remains with the same source even though power transfer to another source has been selected.
- o (c) Power supply is transferred from one source to another while bypassing the circuit breakers.

If choice a is selected set score to 1.

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

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

If choice c is selected set score to 1.

63. Describe the picture and its use.



- o (a) This is a fancy trim on the edge of the carpet. It looks nice on darker colours.
- (b) These are called "the emergency floor path lights". They will illuminate automatically when there is no power in the cabin and are used as exit guidance.

- o (c) This is called the floor path lights. They will be illuminated by the crew during night flight to comfort of the passengers.

If choice b is selected set score to 1.

64. What is the "loose equipment layout"?

- o (a) It is a checklist used by the cabin crew to easily check the expiring dates of the safety equipment.
- (b) It is a drawing of the cockpit and cabin, mentioning the required loose safety equipment, quantity and exact stowage location.
- o (c) It is a numerical part-number list of all the safety equipment on board.

If choice b is selected set score to 1.

65. How many belts are attached to the buckle on an attendant's seat?

- o (a) 2
- (b) 4,5 or 6
- o (c) 3

If choice b is selected set score to 1.

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

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

If choice c 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?

- (a) You are independent of ground equipment.
- o (b) You are independent of ground equipment, there are no major disadvantages since the stair is built that way that it makes a part of the structural strength of the aircraft.
- o (c) You are independent of ground equipment, but the door can no longer be used as an emergency exit.

If choice a is selected set score to 1.

69. What is the sniffer used for?

- o (a) To detect fire in the avionics compartment.
- (b) To detect smoke in avionics compartment.
- o (c) To detect smoke on the flight deck.

If choice b is selected set score to 1.

70. What type of smoke detector contains radioactive material?

- o (a) Photo-electric smoke detectors.
- o (b) Carbon monoxide detectors.
- (c) Ionizing smoke detectors.

If choice c is selected set score to 1.

71. In a pneumatic fire sensor, what triggers the fire warning?

- o (a) The temperature of the gas inside the steel tubing acting on a temperature switch.
- o (b) The difference pressure between static air pressure and expanded air pressure.
- (c) The pressure increase caused by the release of gas from the absorption material acting on a pressure switch.

If choice c is selected set score to 1.

72. Why is there a strainer installed in the fire bottle discharge valve?

- o (a) To catch the yellow disk as an indication that the fire bottle is used.
- o (b) To catch any fragment from the bottle.
- (c) To catch any fragment from the frangible disk.

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?
- (a) To extinguishing different types of fires.
 - (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.** 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.** How are fire bottles without a gauge checked?

- (a) By removing from the aircraft and placing on a weighing scale.
- (b) By doing a tap test on the fire bottle.
- (c) No check has to be done as long as the bottle is not used.

If choice a is selected set score to 1.

- 76.** What kind of data do we find on the labels of a portable fire extinguisher?

- (a) The manufacturer name and P/N & S/N. Approval date and instructions to use. Extinguisher type, weight details and last check or expire date. In the bottle usually the manufacturers date is engraved.
- (b) The manufacturer and approval date and instructions to use.
- (c) The manufacturer name. P/N & S/N. The colour will say the type (green=water, red=halon). The press indicator will show if the bottle is filled to level.

If choice a is selected set score to 1.

- 77.** The elevators control the movement of the aircraft on the

- (a) vertical axis.
- (b) lateral axis.
- (c) longitudinal axis.

If choice b is selected set score to 1.

78. In what direction moves the trim tab in relation to the flight control?

- (a) In the same direction as the flight control.
- (b) Repositioned in the mid.
- (c) In the opposite direction of the flight control.

If choice c is selected set score to 1.

79. What is gust suppression?

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

If choice c is selected set score to 1.

80. If a flap asymmetry is detected during flap extension, what will happen?

- (a) The crew are warned of the asymmetry condition and must stop the flap operation.
- (b) The asymmetry protection systems retracts the flaps immediately.
- (c) The asymmetry protection system stops the flap movement on both wings.

If choice c is selected set score to 1.

81. To reduce turbulence, what do the spoilers do in speed brake motion?

- (a) The inboard spoiler panels remain flush with the wing.
- (b) All the spoiler panels raise less high than when operated in ground spoilers mode.
- (c) The inboard spoiler panels raise less high than the outboards.

If choice c is selected set score to 1.

82. What kind of information needs the stall warning computer to calculate a stall?

- (a) Angle of attack, air speed, flap/slats position, gear position, stabilizer position.
- (b) Flap/slats position, gear position, stabilizer position, thrust settings.
- (c) Air speed, engine thrust setting.

If choice a is selected set score to 1.

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

- (a) Rudder.
- (b) Ailerons.

- (c) Elevators.

If choice a is selected set score to 1.

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



- (a) Horn Balance
- (b) Inset Hinges
- (c) Trim Tab

If choice a is selected set score to 1.

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

- (a) Stick pusher.
- (b) Auto slats.
- (c) Stick shaker.

If choice c is selected set score to 1.

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

- (a) The water could freeze in the fuel filter and block the fuel flow to the engine.
- (b) The water could freeze inside the fuel tanks and block the fuel pumps.
- (c) The water could enter the engine fuel control unit and damage it.

If choice a is selected set score to 1.

87. When it is not possible to seal the fuel tank, then there will be

- (a) an integral tank installed.
- (b) a rigid tank installed.
- (c) a bladder tank installed.

If choice c is selected set score to 1.

88. What are air release valves used for?

- (a) Releases the air pressure inside the fuel tanks during refueling.
- (b) Allows air into the fuel feed line when the pumps are OFF.
- (c) Releases trapped air inside the engine fuel feed line.

If choice c is selected set score to 1.

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

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

If choice b is selected set score to 1.

90. Engines receive fuel from, which fuel tank?

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

If choice b is selected set score to 1.

91. How is the fuel quantity measured in the manual way?

- (a) From the top of the wing visual.
- (b) With dipstick.
- (c) The electrical resistance between two points.

If choice b 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 ...

- (a) onto the ground.
- o (b) in a special overspill fuel tank.
- o (c) into the surge tank.

If choice a is selected set score to 1.

93. Where is also a fuel tank located on aircraft fitted with longitudinal balance fuel systems?

- o (a) Centre wing box.
- (b) Stabilizer.
- o (c) Wing tips.

If choice b is selected set score to 1.

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

- o (a) Pump supply fluid.
- (b) Pump case drain fluid.
- o (c) Pump return fluid.

If choice b 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 reservoir with a piston to separate the air from the oil.
- o (b) A integral reservoir.
- (c) Pressurize the reservoir.

If choice c is selected set score to 1.

96. When does automatic deployment of the hydraulic ram air turbine occur?

- o (a) Both engines OFF - Aircraft in the air.
- o (b) Hydraulic system pressure at ZERO - Airspeed more than 200 knots.
- (c) Both engines OFF - Aircraft in the air - Airspeed more than 80 knots.

If choice c 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 manual reset switch on the flight deck.
- o (c) A thermal bypass valve on the filter.

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. If a filter is installed after the hydraulic reservoir in the pump supply line, this is a

- (a) low pressure filter.
- o (b) suction filter.
- o (c) high pressure filter.

If choice a 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?

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

If choice a is selected set score to 1.

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

- (a) Pneumatic or mechanical.

- (b) Hot bleed air.
- (c) Electrical.

If choice a is selected set score to 1.

103. Rain repellent is stored in:

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

If choice c is selected set score to 1.

104. Air data probes are

- (a) de-iced with pneumatic air.
- (b) electrical heated.
- (c) anti-iced with bleed air.

If choice b is selected set score to 1.

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

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

If choice a is selected set score to 1.

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

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

If choice a is selected set score to 1.

107. How is a landing gear mechanical locked down?

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

If choice c is selected set score to 1.

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

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

If choice c is selected set score to 1.

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

- (a) Needle bearings.
- (b) Conical roller bearings.
- (c) Ball bearings.

If choice b is selected set score to 1.

110. Where would you find a chined tyre?

- (a) On large military jets main wheels.
- (b) On the tail gear tyre.
- (c) On the nose gear tyre.

If choice c is selected set score to 1.

111. What is the purpose of body gear steering?

- (a) To reduce the wear on the tyres in sharp turns.
- (b) To be able to turn more sharply.
- (c) To be able to steer the aircraft if the nose gear steering fails.

If choice a is selected set score to 1.

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

- (a) An open switch.
- (b) A closed switch.
- (c) A failed switch.

If choice a is selected set score to 1.

113. Where will you find taxi lights?

- (a) In the wing leading edges.

- (b) On the nose landing gear.
- o (c) In the wing root.

If choice b is selected set score to 1.

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

- (a) Spotlights.
- o (b) Cabin emergency lights.
- o (c) Flood 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?

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

If choice a 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.
- o (b) By electrolysis of water.
- (c) By using molecular filters.

If choice c 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?

- o (a) 100% oxygen while the user is inhaling.

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

If choice b is selected set score to 1.

119. Where can you find a direct reading pressure gauge on an oxygen system?

- (a) On the oxygen bottle.
- o (b) On the oxygen system control panel.
- o (c) On the flight deck.

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.
- (b) High pressure system.
- o (c) Low pressure system.

If choice b is selected set score to 1.

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

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

If choice b is selected set score to 1.

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

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

If choice a is selected set score to 1.

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

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

If choice a is selected set score to 1.

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

- (a) collected in a waste tank.
- (b) dumped overboard.
- (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.
- (b) The waste tank will leak.
- (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)?

- (a) Maintenance Memo
- (b) Fault codes.
- (c) Status messages

If choice c is selected set score to 1.

127. Aircraft fault history can be read and copied from?

- (a) The Communication System Recorder.
- (b) The Central Maintenance Computer.
- (c) The Navigation System Database.

If choice b is selected set score to 1.

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

- (a) Chronological
- (b) Function-oriented.
- (c) Task Oriented

If choice c is selected set score to 1.

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

- (a) Quick access recorder.
- (b) Central maintenance system.
- (c) Flight data recorder.

If choice c is selected set score to 1.

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

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

If choice b is selected set score to 1.

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

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

If choice b is selected set score to 1.

132. Software which is used in IMA comply with:

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

If choice a is selected set score to 1.

133. The purpose of an AFDX switch is:

- (a) To have redundancy when the main switch fails.
- (b) To interconnect different modules or devices.
- (c) To switch the system power on-off

If choice b is selected set score to 1.

134. The cabin interphone system is used for communication between....

- (a) cabin crew and passengers.
- (b) cabin crew and flight crew.
- (c) passengers and flight crew.

If choice b is selected set score to 1.

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

- (a) A public address unit
- (b) A cabin network System/Server
- (c) Common Core System

If choice b is selected set score to 1.

136. A change of the number of cabin seats means that....

- (a) more data concentrators must be installed.
- (b) the CSSC software must be updated.
- (c) less master call light modules are needed.

If choice b is selected set score to 1.

137. The Cockpit Door Surveillance System is?

- (a) A synoptic page, indicating if all doors are closed, meaning ready for flight.
- (b) a system to assist the flight crew to identify a person requesting access to the flight-deck.
- (c) used to assist the air-bridge operator to align the air-bridge with the cockpit door.

If choice b is selected set score to 1.

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

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

If choice c is selected set score to 1.

139. Where is the Electronic Flight Bag used for?

- o (a) To communicate with the Flight-Operations department of the airline.
- (b) To reduce and replace paper-based reference material, used by pilots.
- o (c) To interact with the critical flight systems and to assist the pilot in an optimized flight-path.

If choice b 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) Yes, but only when an HF connection is available.
- (b) Yes, when a datalink is available.
- o (c) No

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***