

Question block created by wizard

This exam contains 80 questions.

1. What means the term LD50?

- (a) The lowest dose of substance introduced by any route other than inhalation reported to have caused death in humans or animals.
- (b) A calculated concentration of a substance in air, exposure to which for specified length of time is expected to cause the death of 50% of a laboratory animal population.
- (c) The dose of a substance expected to cause the death of 50% of an experimental animal population.

If choice c is selected set score to 1.

2. What is the meaning of a triangular danger sign?

- (a) Prohibitory or mandatory sign.
- (b) Rescue, instruction or supplementary sign.
- (c) Warning sign.

If choice c is selected set score to 1.

3. What substance or agent can cause cancer in humans or animals?

- (a) Teratogen
- (b) Carcinogen
- (c) Mutagen

If choice b is selected set score to 1.

4. What is your first action when a person's eyes are exposed to a hazardous substance, especially a corrosive substance?

- (a) Immediately bring the person to the hospital.
- (b) Cover the eyes immediately and call the ambulance.
- (c) Immediately flush the eyes at an eyewash station.

If choice c is selected set score to 1.

5. What does a "Class C" fire means....

- (a) fire of flammable gases.
- (b) fire of combustible metals.
- (c) fire of combustible solids.

If choice a is selected set score to 1.

6. Two kind of tool control are the "shadow board" and "tool tag" system. What is the advantage of a shadow board?



- (a) The shadow board gives extra protection against the hazards of extreme sunlight
- (b) Technicians can now see which tools are used.
- (c) After calibration the shadow board is used to tag all special tooling so technicians can choose the correct tools

If choice b is selected set score to 1.

7. How should flammable materials be stored?

Flammable material must be stored....

- (a) indoors.
- (b) near the aircraft because all fire extinguishers are also near the aircraft.
- (c) outdoors.

If choice c is selected set score to 1.

8. What is the meaning of "Bilateral Tolerance"?

The variation of the design size....

- (a) .. in one direction.
- (b) .. in three dimensional view.
- (c) .. in both directions.

If choice c is selected set score to 1.

9. Where does the quality of a finished article depend on?

The quality of the finished article....

- (a) depends on the skill of the craftsperson and the equipment available to complete the task.
- (b) does not depend on the skills of the craftsperson because every procedure is defined in the manuals.
- (c) depends only on the developer of the machinery used by the craftsperson.

If choice a is selected set score to 1.

10. Who is responsible when a technician uses a uncalibrated tool during a task?

- (a) The technician.
- (b) The company.
- (c) The tool store.

If choice a is selected set score to 1.

11. If you can choose between an "open end wrench", a "box end wrench" and a "socket" to fasten a bolt.

What type of tooling is the best choice?

- (a) An open end wrench.
- (b) A box-end wrench.
- (c) A socket.

If choice c is selected set score to 1.

12. What is tested with the Abrasive wheel ring test?

The Abrasive wheel ring test....

- (a) is used to determine if the wheel assembly does not contain any fluid.
- (b) can locate an invisible crack.

- (c) is to balance the wheel assy before use.

If choice b is selected set score to 1.

13. Where is a Dial Test Indicator (DTI) used for?

- (a) For measuring the actual size of a component.
- (b) For measuring small differences in indicating the amount of electricity.
- (c) To indicate small differences in size or for indicating the amount of eccentricity.

If choice c is selected set score to 1.

14. Lubricants can be stored together with?

- (a) Greases
- (b) Solvents
- (c) Kerosene

If choice a is selected set score to 1.

15. With a Megaohm-metre you can measure

- (a) insulation resistance.
- (b) high alternating DC resistance.
- (c) very low resistance.

If choice a is selected set score to 1.

16. Where is an adapter kit, as part of an Air Data test set used for?

- (a) Preventing the aircraft systems from damage, caused by rapid pressure changes.
- (b) Connecting the Air Data tester to various sizes of air data sensors.
- (c) Connecting the Air Data tester to a pressure pump.

If choice b is selected set score to 1.

17. What is a combined type of drawing?

- (a) A complete assembly including all individual parts on a single drawing.
- (b) An assembly drawing with sufficient dimensional and other information to describe the component parts of a manufacture.
- (c) Parts or assemblies of essentially similar shape, but of different dimensions.

If choice a is selected set score to 1.

18. In Chapter 1 of the ATA 100, details can be found of the three-element identifier number. The second element identifies sub-systems AS....

- (a) chapters.
- (b) subjects.
- (c) sections.

If choice c is selected set score to 1.

19. Which standards of technical agreements are used worldwide?

- (a) ISO
- (b) ANSI
- (c) NEN-EN

If choice a is selected set score to 1.

20. A hole drilled for a rivet with a specific diameter would....

- (a) differ from those drilled to take a screw thread, but the same for the plain shank of a bolt, of the same diameter.
- (b) the same as those drilled to take a screw thread, or the plain shank of a bolt, of the same diameter.
- (c) differ from those drilled to take a screw thread, or the plain shank of a bolt, of the same diameter.

If choice c is selected set score to 1.

21. Wear limits may be found in the appropriate....

- (a) illustrated parts catalogue.
- (b) repair overhaul manual.
- (c) operation manual.

If choice b is selected set score to 1.

22. Snap gages are....

- (a) adjustable or non-adjustable.
- (b) adjustable.
- (c) non-adjustable.

If choice a is selected set score to 1.

23. Voltage drop test are measured in....

- (a) Volt (V).
- (b) milli Volt (mV).
- (c) deci Volt (dV).

If choice b is selected set score to 1.

24. When testing coaxial cables, energy reflected back to the source forms....

- (a) floating waves.
- (b) standing waves.
- (c) reflected waves.

If choice b is selected set score to 1.

25. Each wire marking contains wire bundle number....

- (a) wire number and gauge of the wire.
- (b) wire number and gauge of the bundle.
- (c) and routing number.

If choice a is selected set score to 1.

26. Tywraps may be used in areas where the temperature does not exceed...(fill in)...°C.

- (a) 100
- (b) 120
- (c) 80

If choice b is selected set score to 1.

27. How much separation is at least required between wiring cables and lines carrying fuel or oxygen?

- (a) 15 cm (6 inch).
- (b) 5 cm (2 inch).
- (c) 10 cm (4 inch).

If choice a is selected set score to 1.

28. The pitch for countersunk rivets is...(fill in)...for universal head rivets.

- (a) smaller than
- (b) larger than
- (c) the same as

If choice b is selected set score to 1.

29. While there are many types of countersink tools, the most commonly used has an included angle of....

- (a) 80 degrees.
- (b) 120 degrees.
- (c) 100 degrees.

If choice c is selected set score to 1.

30. Sheet separation is caused by:

- (a) excessive driving, to much pressure on bucking bar.
- (b) work not held firmly together and rivet shank swelled.
- (c) bucking bar not held firmly.

If choice b is selected set score to 1.

31. Rivet head cracks are caused by....

- (a) bucking bar not held firmly.
- (b) excessive driving, to much pressure on bucking bar.
- (c) work not held firmly together and rivet shank swelled.

If choice b is selected set score to 1.

32. The flaring tool used for aircraft tubing has male and female dies ground to produce a flare of....

- (a) 45 degrees to 47 degrees.
- (b) 33 degrees to 35 degrees.
- (c) 35 degrees to 37 degrees.

If choice c is selected set score to 1.

33. Scratches or nicks not deeper than 10 percent of the wall thickness in aluminium alloy tubing, which are not in the heel of a bend....

- (a) require tube replacement.
- (b) may be repaired.
- (c) may not be repaired.

If choice b is selected set score to 1.

34. A severely damaged line should be replaced. However, the line may be repaired by cutting out the damaged section and inserting a tube section of....

- (a) a smaller size.
- (b) a larger size.
- (c) the same size and material.

If choice c is selected set score to 1.

35. The rubber-cushioned clamp is used to secure lines....

- (a) subject to vibration.
- (b) in the cabin. To reduce noise of vibrations.
- (c) in areas subject to high temperatures.

If choice a is selected set score to 1.

36. Which kind of spring does not obey Hooke's law?

- (a) Tension spring.
- (b) Wave spring.
- (c) Constant force spring.

If choice c is selected set score to 1.

37. During an inspection of bearings, particular attention should be given to rust stains, which may be a good indication of....

- (a) overload.
- (b) the presence of moisture.
- (c) the presence of hydraulic fluid contamination.

If choice b is selected set score to 1.

38. High speed bearings are lubricated with....

- (a) mixture oil/grease.
- (b) oil.
- (c) grease.

If choice b is selected set score to 1.

39. Signs of etching in a bearing can be caused by....

- (a) water or condensation.
- (b) hard particles rolling through the bearing.
- (c) improper fit.

If choice a is selected set score to 1.

40. Brinell in a bearing is caused by....

- (a) chips or metal particles in the bearing.
- (b) water or condensation.
- (c) extremely heavy impact loads.

If choice c is selected set score to 1.

41. In a gear with 4 gearwheels, is the backlash in each gear 0.001mm.

How much would the total backlash then be?

- (a) 0.005 mm.
- (b) 0.004 mm.
- (c) 0.003 mm.

If choice c is selected set score to 1.

42. Checking elongation of a chain, the whole run should be replaced if the extension is in excess of...(fill in)...on any section of the chain.

- (a) 8%
- (b) 2%
- (c) 5%

If choice b is selected set score to 1.

43. If there are any kinks or twists in a chain,....

- (a) the chain should be rejected.
- o (b) only the kinks should be replaced.
- o (c) the twists should be replaced.

If choice a is selected set score to 1.

44. Parts of a chain that are measured out of tolerance should be....

- o (a) modified.
- (b) replaced.
- o (c) repaired.

If choice b is selected set score to 1.

45. Before swaging, cable should be cut to length, allowing....

- (a) growth during swaging.
- o (b) crimp during swaging.
- o (c) crimp before swaging.

If choice a is selected set score to 1.

46. 'Bird Caging' is identified by....

- o (a) over-stretching.
- o (b) permanent bends in the cable.
- (c) the strands tending to move outwards from the centre of the cable.

If choice c is selected set score to 1.

47. Indication of broken strands within the core cable, or a damaged outer sheath of a Bowden cable requires replacement of the....

- (a) complete assembly.
- o (b) inner cable.
- o (c) outer sheath.

If choice a is selected set score to 1.

48. Which factors are limiting the deformation of aluminium sheet metal?

- (a) The condition (state) of the sheet metal, and the type of alloy of the sheet metal.

- o (b) The temperature of heating oven and the temperature in the room.
- o (c) The capability of the machine.

If choice a is selected set score to 1.

49. Scratches and shavings are visible on aluminium sheet metal.

- o (a) This is allowed but only if we paint or anodize the product.
- o (b) This is allowed but we need a thicker sheet for the product.
- (c) This is not allowed because scratches effect the quality of the aluminium metal sheet.

If choice c is selected set score to 1.

50. What is an Adhesive Film?

- o (a) This is a layer inside a composite part which is used during Ultrasonic Inspections to create an echo signal.
- o (b) This is a conductive layer which is applied to the top-skin of an aircraft as LSP (lightning strike protection).
- (c) This is an adhesive that is normally used to bond a honeycomb core material and the surface layer/laminate.

If choice c is selected set score to 1.

51. Why can a lightning strike cause damage to composite parts on aircraft?

- (a) The composite parts cannot conduct the extreme electrical currents, causing burn marks.
- o (b) The matrix or core of the composite material cannot absorb the thermal loads.
- o (c) The electromagnetic forces of a lightning strike can increase galvanic corrosion.

If choice a is selected set score to 1.

52. Why is flux used when soldering?

- o (a) It will lower the temperature of soldering, to reduce the chance of overheating the components, especially on a PCB (Printed Circuit Board).
- (b) It will clean the surface, shield the joint from oxygen and it will aid soldering.
- o (c) It will protect the solder from oxidation while still on the roll, it will clean the surface and reduces the amount of toxic fumes.

If choice b is selected set score to 1.

53. What is the difference between MIG- and TIG-welding?

- o (a) MIG-welding has a non-consumable electrode and TIG-welding has a consumable electrode.

- (b) MIG-welding uses CO₂ as a shielding gas and TIG-Welding used helium or argon as shielding gas.
- (c) The welding wire is provided through the welding gun with MIG-welding and with TIG-welding the filler metal has to be applied manually.

If choice c is selected set score to 1.

54. Which of the following methods is a destructive testing method?

- (a) Wedge test.
- (b) Adhesive bond test.
- (c) Tap test.

If choice a is selected set score to 1.

55. Which formula is used to calculate the position of the CG of an empty airplane?

- (a) $CG = D - \frac{F \times L}{W}$
- (b) $CG = W - \frac{D \times L}{F}$
- (c) $CG = W - \frac{F \times L}{D}$

If choice a is selected set score to 1.

56. Does the aircraft need to be level when weighing?

- (a) An aircraft does not need to be level when electronic scales and an attitude sensor is used.
- (b) An aircraft does not need to be level when the aircraft is fitted with load transducers and an attitude sensor.
- (c) With all weighing methods.

If choice b is selected set score to 1.

57. Correct aircraft taxiing procedures can be found in the....

- (a) CMM.
- (b) SRM.
- (c) AMM.

If choice c is selected set score to 1.

58. Before lowering the aircraft from the jacks ensure....

- (a) brakes are off.
- o (b) brakes are on.
- o (c) brake pressure is available.

If choice a is selected set score to 1.

59. Stored aircraft will have all....

- o (a) outside doors fixed open.
- (b) inside doors and curtains fixed open.
- o (c) inside doors and curtains fixed closed.

If choice b is selected set score to 1.

60. A grounding cable is connected to....

- o (a) create electrical charges.
- o (b) slow down electrical charges.
- (c) eliminate electrical charges.

If choice c is selected set score to 1.

61. What does "Holdover time" mean?

- o (a) The time needed to perform de-icing of aircraft.
- (b) The period the de-icing fluid remains effective.
- o (c) The period between de-icing and takeoff.

If choice b is selected set score to 1.

62. A pneumatic ground hose should be connected to the aircraft....

- (a) before being pressurized.
- o (b) while being pressurized.
- o (c) after being pressurized.

If choice a is selected set score to 1.

63. If there is ice deposit on the aircraft ...

- o (a) there will be an increase in stalling speed.

- (b) there can be Ice debris damage.
- o (c) it has no effect on the Flight / Engine Instruments.

If choice b is selected set score to 1.

64. An effective technique is to look at specific targets. These targets focus the eyes and attention to possible defects.

How do you call this?

- (a) Step scanning.
- o (b) Area scanning.
- o (c) Look scanning.

If choice a is selected set score to 1.

65. Corrosion is primarily detected by....

- o (a) borescope inspection.
- o (b) overheated rivets.
- (c) visual inspection.

If choice c is selected set score to 1.

66. Corroded or damaged, highly stressed members must be....

- (a) replaced.
- o (b) repaired by patching.
- o (c) repaired by insertion.

If choice a is selected set score to 1.

67. Fatigue Critical Structure (FCS) is structure that....

- o (a) only can be repaired by insertion.
- (b) is susceptible or fatigue cracking that could lead to a catastrophic failure of an aircraft.
- o (c) carries flight, ground, crash or pressurization loads.

If choice b is selected set score to 1.

68. When using colour contrast penetrants it is recommended that area of the inspection should be illuminated to a level of at least....

- (a) 500 lux.

- (b) 5000 lux.
- (c) 50 lux.

If choice a is selected set score to 1.

69. When using remote viewing instruments for engine inspections it must be ensured that....

- (a) wind milling (on adverting Starting) of the engine is prevented.
- (b) the engine is not allowed to cool down before inserting the scopes.
- (c) borescope is bent under proper angle.

If choice a is selected set score to 1.

70. Removal / installation of any electronic equipment requires that....

- (a) all external electrical power is removed from the aircraft.
- (b) applicable circuit breakers are tripped and tagged.
- (c) applicable circuit breaker is tripped.

If choice b is selected set score to 1.

71. Removal /installation of any pressurized component requires that....

- (a) all system pressure is released.
- (b) no pressure is released.
- (c) all system pressure partially is removed.

If choice a is selected set score to 1.

72. In general fault finding methods are divided into the following techniques:

- (a) Functional structure technique and probability.
- (b) Probability technique, visual technique and functional structure technique.
- (c) Visual technique and functional structure technique.

If choice b is selected set score to 1.

73. The Aircraft Maintenance Manual contains information required for....

- (a) ordering parts.
- (b) structural repairs.
- (c) servicing.

If choice c is selected set score to 1.

74. A stand-by compass reported a deviation after a lightning strike...

- (a) requires replacement of the system.
- (b) requires NDI inspection of the installation.
- (c) requires a compass swing.

If choice c is selected set score to 1.

75. Lightning strike damage on metal structures is shown as....

- (a) pits, burn marks or circular holes.
- (b) paint missing areas.
- (c) de-laminated skin plies.

If choice a is selected set score to 1.

76. What is the meaning of "Hirf"?

- (a) High intensity radiated fields.
- (b) High intensity radiation frequency.
- (c) High intensity radio frequency.

If choice a is selected set score to 1.

77. An aircraft with a heavy landing, without primary damage,....

- (a) requires always further inspections.
- (b) requires further inspections depending on aircraft type and procedures AMM.
- (c) does never require further inspections.

If choice b is selected set score to 1.

78. When does over-stressing occur?

If the aircraft...

- (a) main wheels strike the runway before the nose wheels.
- (b) lands at a normal rate of descent.
- (c) is not parallel to the runway when it lands.

If choice c is selected set score to 1.

79. Life limited parts should....

- (a) not been used in aircraft.
- (b) be returned to supplier.
- (c) be checked for remaining life, before installing on an aircraft.

If choice c is selected set score to 1.

80. Why do we need additional line maintenance procedures?

- (a) Operators may have different approved procedures.
- (b) Line maintenance has less equipment than base maintenance.
- (c) Line maintenance can also be released by a CAT A mechanic.

If choice a is selected set score to 1.

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