

---

## Question block created by wizard

**This exam contains 80 questions.**

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

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

*If choice b is selected set score to 1.*

**2.** Why are emergency showers or eyewash stations important?

- (a) To clean contaminated clothing before entering a critical environment.
- (b) To clean critical emergency equipment.
- (c) To provide on-the-spot decontamination and flush away hazardous substances that can cause injury.

*If choice c is selected set score to 1.*

**3.** The transfer of high-pressure gases from a large storage bottle to the aircraft component is often called decanting. Why must this be done at a very slow rate?

If the gas is decanted rapidly the temperature of the receiving component will....

- (a) increase in accordance with the gas laws.
- (b) decrease in accordance with the gas laws.
- (c) stay stable in accordance with the gas laws.

*If choice a is selected set score to 1.*

**4.** What kind of fires are best extinguished with Carbon Dioxide?

- (a) Flammable and Combustible Liquids
- (b) Burning metal
- (c) Flammable gases

*If choice a is selected set score to 1.*

**5.** Which three conditions must be met for a fire to occur?

- (a) Fuel, ignition and heat
- (b) Fuel separator, oxygen and heat
- (c) Fuel, oxygen and heat

---

*If choice c 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) After calibration the shadow board is used to tag all special tooling so technicians can choose the correct tools
- (c) Technicians can now see which tools are used.

*If choice c is selected set score to 1.*

7. The technicians identification token .....

- (a) gives the technician access to the aircraft.
- (b) is exchanged for a tool in the tool store.
- (c) is only to identify the technician.

*If choice b is selected set score to 1.*

---

**8.** Explain the term 'tolerance'.

- (a) Tolerance is an approximate dimension that is used for the purpose of general identification.
- (b) Tolerance is the measured size of a finished part.
- (c) Tolerance is the difference between min and max of a given dimension.

*If choice c is selected set score to 1.*

**9.** What is the meaning of "Bilateral Tolerance"?

The variation of the design size....

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

*If choice a is selected set score to 1.*

**10.** What is the need of calibrating test equipment?

- (a) It is not required to calibrate test equipment when it is used for maintenance.
- (b) The need for calibration is only for the traceability of the test equipment, not for the accuracy.
- (c) Calibrating is the need to establish confidence in the accuracy of the test equipment when it is used for maintenance.

*If choice c is selected set score to 1.*

**11.** What is important when using an Engineer's Rule?

An engineer's rule....

- (a) must be kept free from rust and should not be subjected to rough usage.
- (b) is a tool that is only be used by an engineer and not by a mechanic.
- (c) can only be used once.

*If choice a is selected set score to 1.*

**12.** What must be a precaution when using power tools?

- (a) All protective guards and fences are securely in place.
- (b) Machinery is checked for any "Warning" notices indicating it is safe for use.
- (c) Where necessary, the appropriate fire extinguisher is within 2 minutes reach.

*If choice a is selected set score to 1.*

---

**13.** Precision Measuring Instruments are used to measure....

- (a) dimensions with poor accuracy.
- (b) dimensions with a great accuracy.
- (c) object with great dimensions.

*If choice b is selected set score to 1.*

**14.** What is a characteristic of grease as a lubricant?

- (a) Remain chemically stable when it is heated.
- (b) Has to evaporate in service.
- (c) May produce gum, sludge or carbon.

*If choice a is selected set score to 1.*

**15.** What does resolution of a multimeter mean?

Resolution....

- (a) is to determine the current through an unknown resistor.
- (b) refers to how small a measurement a multimeter can indicate.
- (c) is the largest allowable error that occurs under specific operating conditions.

*If choice b is selected set score to 1.*

**16.** What signal must the ILS test-set transmit, for both the ILS receiver localizer and glide slope channels?

- (a) A UHF signal to the aircraft antennas.
- (b) Both a VHF and a UHF signal to the aircraft antennas.
- (c) A VHF signal to the aircraft antennas.

*If choice b is selected set score to 1.*

**17.** A Collective drawing contains....

- (a) a complete assembly including all individual parts on a single drawing.
- (b) parts or assemblies of essential similar shape, but of different dimensions.
- (c) unique parts or assemblies.

*If choice b is selected set score to 1.*

---

**18.** What is the purpose of ATA Specification 100?

To establish....

- (a) a standard of creating drawings of the aircraft.
- (b) a standard for the presentation of technical data, by aircraft, engine or component manufacturers.
- (c) guidelines for the presentation of technical data, by aircraft, engine or component manufacturers.

*If choice b is selected set score to 1.*

**19.** Which of the following standards are developed by the military?

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

*If choice c is selected set score to 1.*

**20.** Bilateral tolerance is a way to express tolerance by using....

- (a) only minus variation for a given size.
- (b) both minus and plus variation for a given size.
- (c) only plus variation for a given size.

*If choice b is selected set score to 1.*

**21.** If the centre line of the shaft is not straight, then the item is....

- (a) out of wear limit.
- (b) elongated.
- (c) bowed,

*If choice c is selected set score to 1.*

**22.** "V"-blocks are used to check the....

- (a) Centre-Line of a shaft.
- (b) clearance of a shaft.
- (c) ovality of a shaft.

*If choice c is selected set score to 1.*

---

**23.** When an ohmmeter is used, the circuit component to be tested must be....

- (a) connected in series with the ohmmeter.
- (b) isolated and the power source removed from the circuit.
- (c) not isolated and the power source installed in the circuit.

*If choice b is selected set score to 1.*

**24.** If the impedance of the coax does not match the load impedance....

- (a) not all the energy fed down the line flows into the load.
- (b) all the energy fed down the line flows into the load.
- (c) not all the energy fed down the line flows back to the load.

*If choice a 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.** Plastic cable clamps must only be used....

- (a) inside the pressure cabin.
- (b) outside the pressure cabin.
- (c) inside the pressure cabin with max clamp load.

*If choice a is selected set score to 1.*

**27.** A Zonal Inspection is essentially:

- (a) a stand-alone GVI directed to a specified component or assembly.
- (b) a stand-alone DET directed to a specified component or assembly.
- (c) a GVI of an area zone to detect obvious unsatisfactory conditions and discrepancies.

*If choice c is selected set score to 1.*

**28.** The minimum spacing between protruding head rivets shall not be less than...(fill in...) times the rivet diameter.

- (a) 3
- (b)  $3\frac{1}{2}$

- 
- (c) 4

*If choice b is selected set score to 1.*

**29.** If the bucking bar is too light, it does not give the necessary bucking weight:

- (a) and the shop head is being deformed.
- (b) and the material may become bulged away from the shop head.
- (c) and the material may become bulged toward the shop head.

*If choice c is selected set score to 1.*

**30.** Sheet separation is caused by:

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

*If choice a is selected set score to 1.*

**31.** If the rivet in an elongated hole is replaced by a rivet of the same size, its ability to carry its share of the shear load is....

- (a) the same.
- (b) weakened.
- (c) improved.

*If choice b is selected set score to 1.*

**32.** Hydraulic tubing under  $\frac{1}{4}$ " in diameter usually can be bent....

- (a) with the use of a production bending tool.
- (b) with the use of a portable bending tool.
- (c) without the use of a bending tool.

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

*If choice a is selected set score to 1.*

---

**34.** Flexible hose slack or bend in the line should be from...(fill in)... percent of its total length to provide for changes in length that will occur when pressure is applied.

- (a) 10 to 15
- (b) 5 to 8
- (c) 3 to 5

*If choice b is selected set score to 1.*

**35.** A Teflon-cushioned clamp is used in areas where....

- (a) the deteriorating effect of Skydrol, hydraulic fluid, or fuel is expected.
- (b) low temperatures are expected.
- (c) high vibrations are expected.

*If choice a is selected set score to 1.*

**36.** What does Hooke's Law states?

The force needed to extend or compress a spring....

- (a) is proportional to the extension or compression.
- (b) is proportional to the permanent deformation.
- (c) is not proportional to the extension or compression.

*If choice a is selected set score to 1.*

**37.** During the cleaning of a bearing, the bearing should....

- (a) be rotated.
- (b) not be able to rotate.
- (c) placed vertically.

*If choice b is selected set score to 1.*

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

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

*If choice a is selected set score to 1.*

---

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

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

*If choice c is selected set score to 1.*

**40.** Abrasive wearing, pitting and grooving are caused by....

- (a) improper lubrication.
- (b) foreign particles.
- (c) corrosion.

*If choice b is selected set score to 1.*

**41.** Backlash can be measured in a gear train by....

- (a) locking both ends of the train, and then measuring the limits of movement in the center of the gear train.
- (b) locking one end of the train and then measuring the limits of movement at the other end of the gear train.
- (c) unlocking both ends of the train and then measuring the limits of movement in the center of the gear train.

*If choice b 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) 5%
- (b) 2%
- (c) 8%

*If choice b is selected set score to 1.*

**43.** Lubrication of chain drives is to prevent....

- (a) excessive noise.
- (b) twisting of the chain.
- (c) excessive wear.

*If choice c is selected set score to 1.*

---

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

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

*If choice c is selected set score to 1.*

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

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

*If choice a is selected set score to 1.*

**46.** A duplicate inspection of a vital point or control system is defined as an inspection which....

- (a) must be performed using two different techniques.
- (b) is performed by two different certified technicians.
- (c) which can be performed using two different techniques.

*If choice b 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) inner cable.
- (b) complete assembly.
- (c) outer sheath.

*If choice b is selected set score to 1.*

**48.** AL 7075 is the strongest aluminium alloy, why do we have to be careful during handling?

- (a) Because it has a very high cracking sensitivity.
- (b) Because it's very dirty and sharp, so you have to wear gloves.
- (c) Because when the material is touched with hands, the material will corrode quicker.

*If choice a is selected set score to 1.*

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

- (a) This is allowed but only if we paint or anodize the product.
- (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 Co-Bonding of a composite material?

This is the process of...

- (a) bonding two or more elements, where at least one has already been fully cured and at least one is uncured.
- o (b) curing and simultaneously bonding of two composite laminates.
- o (c) heating and melting of thermoplastics polymers, when these materials are thoroughly intermixed (or fused) together and after cooling becoming essentially a single part.

*If choice a is selected set score to 1.*

**51.** Which inspection technique can be used on a sandwich composite panel to detect damages?

- o (a) Dye Penetrant
- (b) Ultrasonic
- o (c) Magnaflux

*If choice b is selected set score to 1.*

**52.** What is the purpose of adding Cadmium to solder?

- o (a) This makes it possible to solder silver objects and prevents the heated tip of the soldering iron from burning in.
- o (b) This will improve the bonding to zinc or galvanized objects.
- (c) This will lower the melting point.

*If choice c is selected set score to 1.*

**53.** What is a big disadvantage of Friction stir welding?

- o (a) The tool will wear very fast.
- o (b) The uncontrolled heat source.
- (c) The welding procedure cannot be paused.

*If choice c is selected set score to 1.*

**54.** What is a disadvantage of X-ray inspection?

- (a) Precautions have to be taken because of the harmful rays.
- o (b) The x-rays will turn the material that is inspected slightly radio-active.
- o (c) The faults in the weld will not be shown very clearly.

---

*If choice a is selected set score to 1.*

**55.** What is "Basic Weight Empty"?

- (a) The weight of an aircraft without the optional equipment installed.
- (b) The standard weight of the aircraft, including oil and fuel.
- (c) The weight of the aircraft with optional equipment installed.

*If choice c is selected set score to 1.*

**56.** Is it possible to weigh an aircraft with fuel in the fuel tanks?

- (a) Yes, but only with full tanks and when using a hydrometer.
- (b) No, it is not possible. All fuel has to be drained.
- (c) Yes, the amount of fuel does not matter as long as a hydrometer is used.

*If choice a is selected set score to 1.*

**57.** "Wing- and tail walkers" are monitoring....

- (a) clearance during aircraft towing.
- (b) wing and tail during jacking.
- (c) clearance before taxiing.

*If choice a is selected set score to 1.*

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

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

*If choice c is selected set score to 1.*

**59.** Specific details of aircraft storage procedures can be found in....

- (a) AMM chapter S.
- (b) AMM chapter 10.
- (c) AMM chapter 47.

*If choice b is selected set score to 1.*

**60.** Before refuelling, aircraft and refuelling truck are connected to....

- (a) different grounding points.

- 
- (b) the same grounding point.
  - o (c) the steel structure of a building.

*If choice b is selected set score to 1.*

**61.** Aircraft de-icing will be performed....

- o (a) one time per day, in winter time.
- o (b) before the preflight inspection.
- (c) as close as possible to take-off time.

*If choice c is selected set score to 1.*

**62.** On large aircraft, to disconnect the external electrical power supply correct,....

- (a) switch off the external power at source and remove the external power plug.
- o (b) remove the external power plug.
- o (c) remove the external power plug, switch off the aircraft ac system and switch off the source.

*If choice a is selected set score to 1.*

**63.** Ice deposit on an aircraft will....

- (a) decrease lift and increase drag.
- o (b) decrease lift and decrease drag.
- o (c) increase lift and increase drag.

*If choice a is selected set score to 1.*

**64.** What are smoking rivets?

- o (a) Overheated rivets.
- (b) Working rivets having a dark deposit around them.
- o (c) Decoloured rivets.

*If choice b is selected set score to 1.*

**65.** Anodizing is a simple chemical treatment for all aluminium alloys...

- o (a) to remove grease, oil or organic matter.
- (b) to increase their corrosion resistance and to improve their paint bonding qualities.
- o (c) to restore the protective oxide coating on the metal surface.

---

*If choice b is selected set score to 1.*

**66.** The type of repairs that may be carried out are laid down by the manufacturer of an aircraft in their approved....

- (a) Aircraft Maintenance Manual (AMM).
- (b) Component Repair Manual (CRM).
- (c) Structural Repair Manual (SRM).

*If choice c is selected set score to 1.*

**67.** Multiple Element Damage (MED) is a source of widespread fatigue damage characterized by the simultaneous presence of....

- (a) corrosion in similar adjacent structural elements.
- (b) fatigue cracks in similar adjacent structural elements.
- (c) fatigue cracks in same structural element.

*If choice b is selected set score to 1.*

**68.** Eddy currents are alternating electrical currents, which are induced, into conductive material by....

- (a) a pulsing electric field.
- (b) a steady magnetic field.
- (c) an alternating magnetic field.

*If choice c is selected set score to 1.*

**69.** Inspection by use of a borescope is essentially....

- (a) an eddy current inspection.
- (b) a penetrant inspection.
- (c) a visual inspection.

*If choice c 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 breaker is tripped.
- (c) applicable circuit breakers are tripped and tagged.

*If choice c is selected set score to 1.*

---

**71.** After replacement of a computer, the computer has to be tested.

How do you call this test?

- (a) A capacity test.
- (b) A bonding test.
- (c) A functional test.

*If choice c is selected set score to 1.*

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

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

*If choice c is selected set score to 1.*

**73.** The applicability of data specific aircraft in the IPC is shown by....

- (a) a Numerical Index.
- (b) an Effectivity Code.
- (c) a due date.

*If choice b is selected set score to 1.*

**74.** What is the meaning of "Hirf"?

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

*If choice c is selected set score to 1.*

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

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

*If choice a is selected set score to 1.*

**76.** 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.*

**77.** After a heavy landing, primary damage would normally be concentrated....

- (a) on the upper and lower fuselage skin.
- (b) around the landing gear, its supporting structure in the wings or fuselage, the wing and tailplane attachments and the engine mountings.
- (c) on the wing skin and structure.

*If choice b is selected set score to 1.*

**78.** 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.*

**79.** Which instruction is always related to flight safety?

- (a) The airworthiness directive.
- (b) The service letter.
- (c) The service bulletin.

*If choice a is selected set score to 1.*

**80.** What does it mean to sign an EASA form 1 after maintenance?

- (a) Aircraft meets Part 145 and work has been done per the technical requirements.
- (b) Work has been done in accordance with Part 145 and the technical requirements.
- (c) Work has been done in accordance with Part 145 and but the aircraft does not have to meet all technical requirements.

*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***