

## Question block created by wizard

This exam contains 80 questions.

1. 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.*

2. When is it dangerous to use a Filtering Respirator?

- (a) If there are both solid and liquid particles in the atmosphere
- (b) In oxygen deficient atmospheres i.e. less than 19.5% by volume at sea level
- (c) When there are at least 80% of airborne particles

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

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

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

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

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

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

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

5. What is your first reaction when you see another person receiving an electric shock?

- (a) Immediately check for heartbeat and breathing.
- (b) Immediately switch off the electrical current.
- (c) Immediately remove the person away from the electric source.

*If choice b 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. Who is responsible for the tools used during a particular task?

Used during a particular task it is the responsibility of....

- (a) Tool Stores staff to keep track of ALL of the tools.
- (b) each technician to keep track of ALL of the tools.
- (c) the companies managers to keep track of ALL of the tools.

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

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

The quality of the finished article....

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

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

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

**10.** How can I see the next calibration date on the tools?

- (a) All information of calibration is listed in the shop manual. It is not allowed to apply any sticker on tools.
- (b) A sticker would be attached to the tool detailing the due date of the next calibration.
- (c) The due date of the next calibration is engraved in the tools.

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

**11.** Which are the precautions when using Files?

- (a) Always use the length and grade of file appropriate to the job being done. Whenever possible use less than the half length of the file or each stroke.
- (b) Keep the file teeth clean using a scratch card, never secure the work in a vice.
- (c) Never use a file without a handle, keep the file teeth clean using a scratch card.

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

**12.** When do we use pneumatic Angled Drills?

Pneumatic angled drills....

- (a) can only be used for all conventional drilling operations where direct access is possible.

- (b) are available for drilling holes in positions where access is not possible with straight types.
- o (c) can only be used with the correct type of hydraulic fluid.

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

**13.** What tool is used for precision measuring of internal dimensions?

- o (a) Vernier Height Gauge.
- (b) Internal micrometre.
- o (c) Micrometre Depth Gauge.

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

**14.** What must a mechanic do before using a grease gun?

Ensure that the gun is....

- o (a) not damaged and is filled with grease, regardless what type.
- o (b) refilled with the correct type of oil.
- (c) refilled with the correct type of grease.

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

**15.** What is the unit of resistance measurement?

- (a) Ohms ( $\Omega$ ).
- o (b) Amps (A).
- o (c) Volts (V).

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

**16.** One of the avionics test concepts is a Build In Test (BIT).

An interruptive or initiated BIT is used....

- o (a) when the system (which is tested) is inoperative or switched off.
- o (b) when the aircraft is in flight.
- (c) when the aircraft is on the ground.

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

**17.** What is microfilm?

- o (a) These are pictures take every 2 seconds and put in a sequence as a movie.

- (b) A short instruction movie where images are reduced in size and printed on a photographic film. In the 1980s often maintenance documentation was distributed on Microfilm reels (or Roll).
- (c) A publication is being reproduced on a roll of film and contained in a special cartridge case. A microfilm 'Reader' (a projector) is used, to wind the film through a 'gate' and display a single page of text drawing upon a sheet.

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

**18.** Which manual is a part of the ATA 100 specifications?

- (a) Destructive Testing Manual.
- (b) Airworthiness Directive.
- (c) Illustrated Part Catalogue.

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

**19.** What is ISO?

- (a) It is an international organization and it is the largest developer of laws.
- (b) It is an American organization and it is the largest developer of manufacturing methods.
- (c) It is an international organization and it is the largest developer of standards.

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

**20.** A transition fit is a type of fit in which....

- (a) loosest case provides a clearance fit and the tightest case gives an interference fit.
- (b) one part fits easily into another with a resulting clearance gap.
- (c) one part must be forcibly fitted into another.

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

**21.** If the twist of a shaft disappears, as a result of removing force,....

- (a) the centre line of the shaft is not straight.
- (b) then the shaft will have been loaded below its elastic limit.
- (c) then it has been loaded above its elastic limit.

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

**22.** A Vernier calliper can be used to measure....

- (a) outside dimensions.

- (b) both inside and outside dimensions.
- o (c) inside dimensions.

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

**23.** Any insulation tester has an output voltage that is....

- o (a) lower than the working voltage of the circuit under test.
- (b) equal to (and for preference appreciably higher than) the working voltage of the circuit under test.
- o (c) equal to the expected value of the dielectric constant.

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

**24.** To measure the VSWR (Voltage Standing-Wave Ratio), a.....

- o (a) megger is used.
- o (b) voltmeter is used.
- (c) time domain meter is used.

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

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

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

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

**26.** Shielded wire allows the transmission of electricity....

- o (a) causing EMI (Electro Magnetic Interference) or HIRF (Highly Radiated Frequency)
- o (b) without causing VSWR.
- (c) without causing EMI (Electro Magnetic Interference) or HIRF (High Intensity Radiated Frequency)

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

**27.** How much separation is at least required between electrical cables and control cables?

- (a) 7.5 cm (3 inch).
- o (b) 5 cm (2 inch).

- o (c) 10 cm (4 inch).

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

**28.** The smallest allowable rivet pitch is...(fill in)...rivet diameters.

- o (a) 5
- o (b) 2
  
- (c) 3

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

**29.** Dimpling is done with a....

- o (a) male die (punch set).
  
- (b) male and female die (punch set).
  
- o (c) female die (die set).

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

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

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

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

**31.** To obtain high structural efficiency in the manufacturing and repair of aircraft, an inspection must be made of....

- o (a) 50% of all rivets before the part is put in service.
  
- (b) all rivets before the part is put in service.
  
- o (c) 75% of all rivets before the part is put in service.

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

**32.** A crooked flare is the result of the....

- o (a) flare is less than 45 degrees.
- o (b) tubing is not cut at the proper length.
  
- (c) tubing not being cut squarely.

*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 not be repaired.
- (c) may be repaired.

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

**34.** Any crack or deformity in a flare is....

- (a) acceptable if there is no static leak.
- (b) acceptable if there is no dynamic leak.
- (c) unacceptable and is cause for rejection.

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

**35.** Un-bonded clamps should be used only for securing....:

- (a) wiring.
- (b) flexible hoses in place.
- (c) metal hydraulic, fuel or oil lines in place.

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

**36.** If springs are overheated in high temperature areas, they can....

- (a) get stressed over time.
- (b) lose their mechanical compliance with specification.
- (c) be used after a special inspection.

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

**37.** During oiling, the bearing should....

- (a) be spinning.
- (b) be slowly rotated.
- (c) no be rotated.

*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) water or condensation.
- (c) improper fit.

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

**40.** Signs on a bearing of pitting and grooving is caused by....

- (a) hard particles rolling through the bearing.
- (b) normal wear.
- (c) water or moisture.

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

**41.** A small amount of backlash is desirable....

- (a) to provide for lubricant space and differential expansion between the gear components and the housing.
- (b) to change the center distance.
- (c) to control temperature in the gear.

*If choice a 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.** Checking articulation: the chain should be checked for tight joints by articulating each link though approximately....

- (a) 45 degrees
- (b) 90 degrees

- (c) 180 degrees

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

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

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

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

**46.** Components, systems or vital points subject to duplicate inspection must....

- o (a) be re-aligned between the first and second parts of inspection.
- (b) not be disturbed or readjusted between the first and second parts of the inspection.
- o (c) be readjusted between the first and second parts of the inspection.

*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....

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

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

**48.** Why do we need to de-burr aluminium metal sheet?

- o (a) To prevent that you cannot cut yourself on the sharp edges.
- (b) To make smooth finished edges, to prevent cracking during processing sheet metal.
- o (c) To create straight edges on the sheet metal.

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

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

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

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

**50.** What is Fusion Bonding of a composite material?

This is the process of...

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

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

**51.** To detect a surface delamination on the surface of an sandwich composite panel, which inspection technique can be used?

- o (a) Eddy current
- (b) Tap Test
- o (c) Magnaflux

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

**52.** Why is eutectic solder so special in relation to other solder types.

- o (a) It has better flowing properties.
- (b) It has a melting point instead of a melting range.
- o (c) It is the only solder that has 50% tin and 50% lead.

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

**53.** What is a specific property of brazing?

- o (a) Brazing is as strong as welding.
- o (b) Brazing is not based on the capillary action of the solder.
- (c) The solder will melt above 450 degrees Celsius.

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

**54.** Which of these methods can **NOT** be used to prepare the composite surface for an adhesive?

- (a) Acid surface treatment.
- o (b) Primer.
- o (c) Heat treatment.

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

**55.** If the root chord of the wing is 112 inch and the chord of the tip is 88 inch, what is the size of the Mean Aero dynamical Chord (MAC)?

- (a) 100 inch
- o (b) 200 inch
- o (c) 400 inch

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

**56.** Why is weight and balance so important in aviation?

- o (a) To get more fuel in the aircraft so it will have more range.
- o (b) To make sure an aircraft is loaded as efficient as possible, which will result in more passengers and luggage in one aircraft which will be better for the environment.
- (c) To ensure safe flight handling.

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

**57.** Small aircrafts can be moved by....

- o (a) pushing the propeller at the tip.
- (b) using a tow bar and push / pull only at point specified by the manufacturer.
- o (c) pulling the propeller at the tip.

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

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

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

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

**59.** Before airplane storage....

- (a) the tanks should be drained, filled or partially-filled as described in the applicable AMM.
- o (b) all tanks should be drained.
- o (c) all tanks should be filled.

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

**60.** Fuel removed from an airplane will....

- o (a) only be re-used on an other airplane.
- (b) not be re-used any more.
- o (c) only be re-used on the same airplane.

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

**61.** It is not recommended to use the aircraft anti-icing systems....

- o (a) during take-off.
- (b) to remove or prevent ice formation on the ground.
- o (c) during flight.

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

**62.** During hydraulic ground supply different hydraulic fluids....

- o (a) can be mixed.
- o (b) can be mixed in case of urgency.
- (c) cannot be mixed.

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

**63.** Glaze ice....

- o (a) is the most severe but less dangerous form of rime ice formation on aircraft.
- o (b) is the less severe and less dangerous form of ice formation on aircraft.
- (c) is the most severe and most dangerous form of ice formation on aircraft.

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

**64.** The procedures and techniques for a visual inspection must be such that they produce....

- o (a) different results from different inspectors.

- (b) the same results from different inspectors.
- o (c) different results from same inspector.

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

**65.** Before starting a close visual inspection of any selected part of area, any corrosion found in the preliminary inspection should be....

- o (a) treated.
- (b) removed.
- o (c) cleaned.

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

**66.** The splice or patch material used in internal riveted and bolted repair is normally the same type of material as the damaged part,....

- o (a) but one gauge smaller.
- o (b) with the same gauge.
- (c) but one gauge heavier.

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

**67.** In older aircraft, corrosion will be associated with other types of damage, such as....

- o (a) corrosion cracking.
- o (b) corrosion fatigue.
- (c) fatigue cracking.

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

**68.** Applying the penetrant (non-destructive testing), ideally the temperature of the part should be in the range of....

- o (a) 5 - 60 degrees Celsius
- (b) 5 - 40 degrees Celsius
- o (c) 1 - 25 degrees Celsius

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

**69.** Rigid borescopes are provided with....

- (a) several versions of viewing ends, which allow a forward view, a lateral view, a forward oblique or a reverse view of the inspection area.

- o (b) a viewing end that allows a forward view.
- o (c) a forward oblique or a reverse view of the inspection area.

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

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

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

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

**71.** During removal of aircraft components blanks should be fitted....

- o (a) on the component.
- o (b) to system connection on the aircraft.
- (c) to system connection both on the aircraft an on the component.

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

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

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

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

**73.** ATA Chapters are relevant for....

- (a) all commercial aircraft.
- o (b) passenger aircrafts.
- o (c) Boeing aircrafts.

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

**74.** Lightning strike damage on metal structures is shown as....

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

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

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

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

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

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

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

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

**77.** 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.*

**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.** What is an example of scheduled maintenance?

- (a) Inflation of the tires when needed.
- (b) Inspection of the tires before flight.
- (c) Replacement of the tires when worn.

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

**80.** What is the purpose of a MEL?

- o (a) To set priorities for the planner.
- o (b) To determine which maintenance is optional.
- (c) To determine which task maybe deferred and which cannot be deferred.

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

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