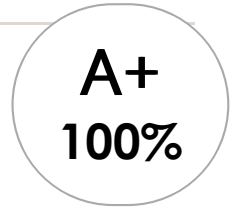


20 Multiple choice questions



1. the resistive force a body has to motion through the air
 - a. fibre
 - b. chord
 - c. creep
 - d. **CORRECT: drag**

2. corrosion is the chemical or electrochemical reaction leading to the gradual deterioration of a material and its properties; in aviation, pitting, crevice and stress cracking corrosion are the most pervasive
 - a. composites
 - b. **CORRECT: corrosion**
 - c. airfoil
 - d. chord

3. the slow permanent deformation of a material when subjected to stresses over an extended period of time
 - a. **CORRECT: creep**
 - b. camber
 - c. drag
 - d. chord

4. the trade name of an aluminium alloy containing varying degree's of copper, manganese and magnesium
 - a. fuselage
 - b. airfoil
 - c. **CORRECT: duralumin**
 - d. drag

5. aerodynamic surfaces designed to obtain lift from the air through which they move
 - a. chord
 - b. corrosion
 - c. airspeed
 - d. **CORRECT: airfoil**

6. the angle an aircraft's wings and body make relative to its flight path
 - a. elevator
 - b. aerodynamics
 - c. **CORRECT: angle of attack**
 - d. altimeter

7. an instrument which senses changing air pressure in order to measure altitude
 - a. camber
 - b. elevator
 - c. **CORRECT: altimeter**
 - d. airspeed

8. coating metal (mostly aluminium) with a protective oxide layer by an electrolytic process in which the metal forms the anode; the coating may be coloured by dye
 - a. airfoil
 - b. drag
 - c. **CORRECT: anodising**
 - d. corrosion

9. the tail assembly of an aircraft, including stabilising and control surfaces
 - a. elevator
 - b. fuselage
 - c. **CORRECT: empennage**
 - d. drag

10. this is an explanation of the relationship between a fluid's kinetic energy (movement) and its potential energy (pressure); it states that any increase in a fluid's speed will also be accompanied by a corresponding reduction in pressure
 - a. **CORRECT: Bernoulli's principle**
 - b. anodising
 - c. dynamic pressure
 - d. aerodynamics

11. these are multi-phase materials formed from a combination of materials which differ in composition or form; remaining bonded together, these individual components of composites combine to improve upon the original properties of the component materials; composites include fibrous, laminar and particulate materials or combinations of any of the above
- camber
 - CORRECT: composites**
 - airfoil
 - corrosion
12. a hinged section of the horizontal stabiliser adding or subtracting life from the tail
- altimeter
 - chord
 - empennage
 - CORRECT: elevator**
13. speed of a body relative to the surrounding air
- empennage
 - aerodynamics
 - airspeed
 - CORRECT: dynamic pressure**
14. the branch of science that deals with the motion of bodies is relative to the atmosphere surrounding them
- CORRECT: aerodynamics**
 - empennage
 - airfoil
 - anodising
15. the speed of an aircraft relative to the surrounding atmosphere
- creep
 - airfoil
 - CORRECT: airspeed**
 - fibre

16. the amount of curve on the outer surface of an airfoil section
- creep
 - chord
 - CORRECT: camber**
 - fibre
17. the imaginary line drawn through the cross-section of an airfoil that joins the centre of the leading edge to the trailing edge
- creep
 - drag
 - fibre
 - CORRECT: chord**
18. a slender thread of a natural or synthetic material, such as optical or carbon fibres
- drag
 - chord
 - creep
 - CORRECT: fibre**
19. a term coined by the Boeing corporation for the virtual assembly and testing of parts before proceeding to manufacturing
- duralumin
 - CORRECT: digital pre-assembly**
 - airspeed
 - dynamic pressure
20. main structural part of the aircraft to which the wings and tail section are attached
- CORRECT: fuselage**
 - fibre
 - drag
 - empennage