

แบบทดสอบประเมินตนเอง

1. เอกสารเทคนิคจะประกอบไปด้วยกลุ่มต่างๆ ตั้งแต่ 3 กลุ่มขึ้นไปแต่จะไม่เกิน 7 กลุ่ม นับตัวอักษรและตัวเลขของแต่ละกลุ่มมารวมกันแล้วจะต้องไม่เกินกี่ตัว
 - ก. 15 ตัว
 - ข. 20 ตัว
 - ค. 25 ตัว
2. On which strokes are both valves on a four-stroke cycle reciprocating aircraft engine open?
 - A. Power and exhaust.
 - B. Intake and compression.
 - C. Exhaust and intake.
3. A well-designed rivet joint will subject the rivets to
 - A. compressive loads.
 - B. shear loads.
 - C. tension loads
4. When computing weight and balance, an airplane is considered to be in balance when
 - A. the average moment arm of the loaded airplane falls within its CG range.
 - B. all moment arms of the plane fall within CG range.
 - C. the movement of the passengers will not cause the moment arms to fall outside the CG range.
5. The vertical flight of a helicopter is controlled by
 - A. collective pitch changes.
 - B. cyclic pitch changes.
 - C. increasing or decreasing the RPM of the main rotor.
6. In brake service work, the term “bleeding brakes” is the process of
 - A. withdrawing air only from the system.
 - B. withdrawing fluid from the system for the purpose of removing air that has entered the systems.
 - C. replacing small amounts of fluid in reservoir.

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7. When bleeding aircraft brakes, one of the indications that the air has been purged from the system is
- A. partial brake pedal travel.
 - B. full brake pedal travel.
 - C. firm brake pedals.
8. A reduction in anti-torque thrust will cause the
- A. tail to pivot in the opposite direction of torque rotation around the main rotor.
 - B. tail to pivot in the direction of torque rotation around the main rotor axis.
 - C. anti-torque system to become more efficient in the hover mode.
9. What tasks are completed prior to weighing an aircraft to determine its empty weight?
- A. Remove all items except those on the aircraft equipment list; drain fuel and hydraulic fluid.
 - B. Remove all items on the aircraft equipment list; drain fuel, compute oil and hydraulic fluid weight.
 - C. Remove all items except those on the aircraft equipment list; drain fuel and fill hydraulic reservoir.
10. Rivet pitch is the distance between the
- A. centers of rivets in adjacent rows.
 - B. centers of adjacent rivets in the same row.
 - C. heads of rivets in the same row.
11. One of the best indicators of reciprocating engine combustion chamber Problems is
- A. excessive engine vibration.
 - B. starting difficulties.
 - C. spark plug condition.
12. เอกสารเทคนิคหมายเลข TH1F – 16A – 2 – 24JG – 00 – 21 หมายเลข 2 ในกลุ่ม 3 มีความหมายตรงกับข้อใด
- ก. Supplement Manual
 - ข. Kind of Technical Order
 - ค. Time Compliance Technical Order

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13. How long should you wait after a flight before checking tire pressure?

- A. At least 2 hours (3 hours in hot weather).
- B. At least 3 hours (4 hours in hot weather).
- C. At least 4 hours (5 hours in hot weather).

14. Movement about the lateral axis (pitch) in a helicopter is effected by movement of the

- A. collective pitch control.
- B. cyclic pitch control.
- C. tail rotor pitch control.

15. ข้อใดเป็น T.O. ที่เกี่ยวข้องกับระบบฐานล้อ

- ก. 3R3-3-3
- ข. 4S1-126-3
- ค. 5L1-3-8-12

16. What type loads cause the most rivet failures?

- A. Shear.
- B. Bearing.
- C. Head.

17. An airplane which has good longitudinal stability should have a minimum tendency to

- A. roll.
- B. pitch.
- C. yaw.

18. What is meant by the term “residual fuel”?

- A. A known amount of fuel left in the tanks, lines, and engine.
- B. The fuel remaining in the tanks, lines, and engine after draining.
- C. The fuel remaining in the tank, lines, and engine before draining.

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19. เอกสารเทคนิคสายบริษัท (Commercial) หมายเลข 28 – 11 – 31 ตัวเลข 28 หมายถึงข้อใด

ก. CHAPTER

ข. SECTION

ค. SUBJECT

20. What is the minimum amount of time to wait for tires to cool before checking tire pressure?

A. 3 hours.

B. 2 hours.

C. 1 hours.

21. Most rivets used in aircraft construction have

A. dimples.

B. smooth heads without markings.

C. a raised dot.

22. What type of flap system increases the wing area and changes the wing camber?

A. Fowler.

B. Slotted flaps.

C. Split flaps.

23. The purpose of an orifice check valve is to

A. relieve pressure to a sensitive component.

B. restrict flow in one direction and allow free in the other.

C. relieve pressure in one direction and prevent flow in the other direction.

24. Relief valves are used in pneumatic systems

A. for one direction flow control.

B. to reduce the rate of airflow.

C. as damage-preventing units.

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25. TC.TO.แบ่งระดับความเร่งด่วนไว้ 3 ระดับ ความเร่งด่วนประเภทใด เมื่อส่งถึงฐานที่มีอากาศยานหรือบริษัท
นั้นๆ แล้วจะต้องส่งให้หน่วยซ่อมบำรุงทันที ภายใน 4 ชั่วโมง

ก. Immediate Action

ข. Urgent Action

ค. Routine Action

26. What is the minimum edge distance for aircraft rivets?

A. Two times the diameter of the rivet shank.

B. Two times the diameter of the rivet head.

C. Three times the diameter of the rivet shank.

27. The useful load of an aircraft consists of the

A. crew, usable fuel, oil, passengers, and cargo.

B. crew, usable fuel, oil, cargo, and fixed equipment.

C. crew, passengers, usable fuel, oil, cargo, and fixed equipment.

28. The chord of a wing is measured from?

A. wingtip to wingtip.

B. wing root to the wingtip.

C. leading edge to trailing edge.

29. In the gas turbine engine, combustion occurs at a constant

A. volume.

B. pressure.

C. density.

30. The purpose of the pressure regulator in a hydraulic system is to

A. maintain system operating pressure within a predetermined range and to unload the pump.

B. regulate the amount of fluid flow to the actuating cylinders within the system.

C. prevent failure of components or rupture of hydraulic lines under excessive pressure.

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31. ถ้าท่านต้องการตรวจสอบสถานภาพ (status) ของ General technical orders ท่านสามารถตรวจสอบได้ในเอกสารเทคนิคหมายเลขใด

ก. 0 – 1 – 01

ข. 0 – 1 – 02

ค. 0 – 1 – 2

32. What is the minimum spacing for a single row of aircraft rivets?

A. Two times the diameter of the rivet shank.

B. Three times the length of the rivet head.

C. Three times the diameter of the rivet shank.

33. Which of the following have an effect on aircraft CG results when conducting a weight and balance check?

A. Leaving the parking brake on.

B. Leaving the parking brake off.

C. Leaving the downlocks installed.

34. ข้อใด “ไม่ใช่” ชั้นความลับของเอกสารเทคนิค

ก. Unclassified

ข. Conceal

ค. Confidential

35. What is the first engine instrument indication of a successful start of a turbine engine?

A. A rise in engine RPM

B. A rise in oil temperature

C. A rise in the exhaust gas temperature

36. What is the viscosity of hydraulic fluid?

A. The increase in volume of a fluid due to temperature change.

B. The fluid's ability to resist oxidation and deterioration for long periods.

C. The internal resistance of a fluid which tends to prevent it from flowing.

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37. A unit which transforms hydraulic pressure into linear motion is called

- A. an actuating cylinder.
- B. an accumulator.
- C. a hydraulic pump.

38. Three types of turbine blades are

- A. impulse, converging, and impulse-converging.
- B. impulse, reaction, and impulse-reaction.
- C. impulse, diverging, and impulse-diverging.

39. Which of the following may cause erroneous scale reading?

- A. Wheel chocks in place.
- B. Parking brakes set.
- C. parking brakes not set.

40. Shallow scratches in sheet metal may be repaired by

- A. burnishing.
- B. buffing.
- C. stop drilling.

41. The CG range in single-rotor helicopters is

- A. much greater than for airplanes.
- B. approximately the same as the CG range for airplane.
- C. more restricted than for airplane.

42. Which of the following engine variables is the most critical during turbine engine operation?

- A. Compressor inlet air temperature.
- B. Compressor RPM.
- C. Turbine-inlet temperature.

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43. แบบพิมพ์ ทอ.ชอ.227 ตรงกับข้อใด

- ก. ประวัติบริษัทอากาศยาน
- ข. ประวัติการปฏิบัติตามแจ้งความเทคนิค
- ค. ประวัติที่ควรบันทึก

44. Which two elements make up the axial-flow compressor assembly?

- A. Rotor and stator.
- B. Compressor and manifold.
- C. Stator and diffuser.

45. What is the main purpose of a pressurized reservoir in a hydraulic system?

- A. Prevent tank collapse at altitude.
- B. Prevent hydraulic pump cavitation.
- C. Prevent hydraulic fluid from foaming.

46. At sea level, when the average atmospheric pressure is

- A. 29.92 Hg.
- B. 29.92 Mb.
- C. 1013.25 Hg.

47. Propeller blade tracking is the process of determining

- A. the plane of rotation of the propeller with respect to aircraft longitudinal axis.
- B. that the blade angles are within the specified tolerance of each other.
- C. the positions of the tips of the propeller blades relative to each other.

48. What is the function of the inlet guide vane assembly on an axial-flow compressor?

- A. Directs the air into the first stage rotor blades at the proper angle.
- B. Converts velocity energy into pressure energy.
- C. Converts pressure energy into velocity energy.

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49. When towing a large aircraft

- A. a person should be in the cockpit to watch for obstructions.
- B. persons should be stationed at the nose, each wingtip, and the empennage at all times.
- C. a person should be in the cockpit to operate the brakes.

50. You can distinguish between aluminum and aluminum alloy by

- A. filing the metal.
- B. testing with an acetic acid solution.
- C. testing with a 10 percent solution of caustic soda

51. When first starting to move an aircraft while taxiing it is important to

- A. test the brakes.
- B. closely monitor the instruments.
- C. notify the control tower.

52. Counterweights on constant-speed propellers are generally used to aid in

- A. increasing blade angle.
- B. decreasing blade angle.
- C. unfeathering the propellers.

53. เอกสารเทคนิคข้อใดที่เกี่ยวข้องกับการทำความสะอาด

- ก. T.O. 1-1-1
- ข. T.O. 2J-1-13
- ค. ถูกทุกข้อ

54. What is the primary advantage of an axial-flow compressor over a centrifugal compressor?

- A. High frontal area.
- B. Less expensive.
- C. Greater pressure ratio.

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55. A fuel that vaporizes too readily may cause.

- A. hard starting
- B. detonation.
- C. vapor lock.

56. The compressor stators in gas turbine engine act as diffusers to

- A. decrease the velocity of the gas flow.
- B. increase the velocity of the gas flow.
- C. increase the velocity and decrease the pressure of the gas.

57. การผุกร่อนข้อใดเกิดมาจากโลหะที่ไม่เหมือนกันมาสัมผัสกัน โดยมีความชื้นภายนอกเป็นตัวเชื่อมโยง

- ก. Ordinary corrosion
- ข. Stress corrosion
- ค. Galvanic corrosion

58. The main differences between grades 100 and 100LL fuel are

- A. volatility and lead content.
- B. volatility, lead content, and color.
- C. lead content and color.

59. What are the rotational speed and blade pitch angle requirement of a constant-speed propeller during takeoff?

- A. Low speed and high-pitch angle.
- B. High speed and low-pitch angle.
- C. High speed and high-pitch angle.

60. A constant-speed propeller provides maximum efficiency by

- A. increasing blade pitch as the aircraft speed.
- B. adjusting blade angle for most conditions encountered in flight.
- C. increasing the lift coefficient of the blade.

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61. When the lift of an airfoil increases, the drag will?
- A. decrease.
 - B. also increase.
 - C. increase while the lift is changing but will return to its original value.
62. Movement of an airplane along its lateral axis (roll) is also movement
- A. around or about the longitudinal axis controlled by the elevator.
 - B. around or about the lateral axis controlled by the ailerons.
 - C. around or about the longitudinal axis controlled by the ailerons.
63. Why is it generally necessary to jack an aircraft indoors for weighting?
- A. So aircraft may be placed in a level position.
 - B. So that air currents do not destabilize the scales.
 - C. So weighing scales may be calibrated to 0 pounds.
64. What test is used to determine the serviceability of an oxygen cylinder?
- A. Pressure test with manometer.
 - B. Pressure test with nitrogen.
 - C. Pressure test with water.
65. What must accompany fuel vaporization?
- A. An absorption of heat.
 - B. A decrease in vapor pressure.
 - C. A reduction in volume.
66. Oxygen used in aircraft systems
- A. is at least 99.5 percent pure and is practically water free.
 - B. is at least 99.5 percent pure and is the same as hospital-quality oxygen.
 - C. contains a higher level of water vapor than hospital-quality oxygen.

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67. A contaminated oxygen system is normally purged with

- A. oxygen.
- B. compressed air.
- C. nitrogen.

68. The color of 100LL fuel is

- A. blue.
- B. colorless or straw.
- C. red.

69. The cabin pressure control setting has a direct influence upon the

- A. outflow valve opening.
- B. pneumatic system pressure.
- C. inflow valve opening.

70. Propeller blade angle is the angle between the

- A. chord of the blade and the relative wind.
- B. relative wind and the rotational plane of the propeller.
- C. chord of the blade and the rotational plane of the propeller.

71. ตัวประกอบชนิดใดที่มีผลต่อการผูกרון

- ก. สภาพที่ตั้งของภูมิศาสตร์
- ข. การอบชุบ
- ค. ถูกทุกข้อ

72. The Brayton cycle is known as the constant

- A. pressure cycle.
- B. temperature cycle.
- C. mass cycle.

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73. Unless otherwise specified, the radius of a bend is the
- A. inside radius of the metal being formed.
 - B. inside radius plus one-half the thickness of the metal being formed.
 - C. radius of the neutral axis plus one-half the thickness of the metal being formed.

74. ข้อใด “ไม่ใช้” ประเภทการตรวจสอบปริมาณอากาศยาน

- ก. การตรวจสอบปริมาณที่กำหนดอายุใช้งาน
- ข. การตรวจสอบปริมาณตามสภาพ
- ค. การตรวจสอบปริมาณตามเวลาปฏิบัติ

75. For takeoff, a constant-speed propeller is normally set in the

- A. HIGH PITCH, high RPM position.
- B. HIGH PITCH, low RPM position.
- C. LOW PITCH, high RPM position.

76. Aircraft wire size is determined by using a(n)

- A. ohmmeter.
- B. wire gauge.
- C. dial caliper.

77. What is the proper starting sequence for a turbojet engine?

- A. Ignition, starter, fuel.
- B. Starter, ignition, fuel.
- C. Starter, fuel, ignition.

78. Mild steel rivets are used for riveting

- A. nickel-steel parts.
- B. magnesium parts.
- C. steel parts.

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79. If a fire develops in an engine during the starting procedure, you should
- A. discontinue the start attempt and allow the fireguard to extinguish the fire.
 - B. continue cranking to start the engine and extinguish the fire.
 - C. continue cranking and allow the fireguard to extinguish the fire.
80. When approaching the rear of an idling turbojet or turbofan engine, the hazard area extends aft of the engine approximately
- A. 200 feet.
 - B. 100 feet.
 - C. 50 feet.
81. The stators in the turbine section of a gas turbine engine
- A. Increase the velocity of the gas flow.
 - B. decrease the velocity of the gas flow.
 - C. increase the pressure of the gas flow.
82. What is the frequency of most aircraft alternating current?
- A. 115 hertz.
 - B. 60 hertz.
 - c. 400 hertz.
83. The primary function of the cabin pressurization system outflow valve is to
- A. provide protection against overpressurization.
 - B. maintain the desired cabin pressure.
 - C. maintain the same cabin air pressure at all altitudes.
84. Fuel system components must be bonded and grounded in order to
- A. drain of static charges.
 - B. prevent stray currents.
 - C. retard galvanic corrosion.

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85. Aircraft copper electrical wire is coated with silver, or nickel in order to
- A. improve conductivity.
 - B. add strength.
 - C. prevent oxidization.
86. Electrical circuit protection devices are installed primarily to protect the
- A. switches.
 - B. units.
 - c. wiring.
87. Maximum zero fuel weight is the
- A. dry weight plus the weight of full crew, passengers, and cargo.
 - B. basic operating weight without crew, fuel, and cargo.
 - C. Maximum permissible weight of a loaded aircraft (passengers, crew, and cargo) without fuel.
88. In what section of a turbojet engine is the jet nozzle location?
- A. Combustion.
 - B. Turbine.
 - C. Exhaust.
89. The useful load of an aircraft is the difference between
- A. the maximum takeoff weight and basic empty.
 - B. maximum ramp or takeoff weight as applicable, and zero fuel weight.
 - C. (1) the weight of an aircraft with all seats filled, full baggage/cargo, and full fuel, and
(2) aircraft weight with all seats empty, no baggage/cargo, and minimum operating fuel.
90. the most satisfactory extinguishing agent for an electrical fire is
- A. carbon tetrachloride.
 - B. carbon dioxide.
 - C. methyl bromide.

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91. อัตราความพร้อมปฏิบัติการของอากาศยาน คือ
- ก. FMC (%)
 - ข. PMC (%)
 - ค. NMCB (%)
92. The use of water on Class D fire
- A. is most effective if sprayed in a fine mist
 - B. will cause the fire to burn more violently and can cause explosions
 - C. has no effect
93. กระจกทรายใช้ขัดสิ่งสกปรกที่เกิดกับโลหะ เหล็ก หากจะขัดชิ้นงานที่ต้องใช้กระจกที่มีความละเอียด จะต้องใช้กระจกทรายเบอร์อะไร
- ก. เบอร์ 800
 - ข. เบอร์ 300
 - ค. เบอร์ 180
94. If it is necessary to weight an aircraft with full fuel tanks, all fuel weight must be subtracted from the scale readings
- A. except minimum fuel.
 - B. including unusable fuel.
 - C. except unusable fuel.
95. How are most aircraft turbine engine fire-extinguishing systems activated?
- A. Electrically discharged cartridges.
 - B. Manual remote control valve.
 - C. Pushrod assembly.
96. A fuel system must be designed to prevent fuel-vapor ignition caused by
- A. over-heating.
 - B. back-fire.
 - C. lightning.

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97. What are the four general types of fuel quantity?

- A. Sight glass, mechanical, electrical, and electronic.
- B. Electrical, and electronic, bourbon tube, and litmus indicator.
- C. Electrical, direct reading static pressure type, sight glass, and litmus indicator.

98. The shop head of a rivet should be

- A. one and one-half times the diameter of the rivet shank.
- B. one half times the diameter of the rivet shank.
- C. one and one-half times the diameter of the manufactured head of the rivet.

99. What is the purpose of a float-operated transmitter installed in a fuel tank?

- A. It sends an electric signal to the fuel quantity indicator.
- B. It senses the total amount of fuel density.
- C. It senses the dielectric qualities of fuel and air in the tank.

100. The propeller governor controls the

- A. oil to and from the pitch changing mechanism.
- B. spring tension on the boost pump speeder spring.
- C. linkage and counterweights from moving in and out.

101. When installing electrical wiring parallel to a fuel line, the wiring should be

- A. below the fuel line.
- B. beside the fuel line.
- C. above the fuel line.

102. In the theory of weight and balance, what is the name of the distance from the fulcrum to an object?

- A. Lever arm.
- B. Balance arm.
- C. Fulcrum arm.

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103. What is one purpose of a fuel tank vent?

- A. To maintain atmospheric pressure.
- B. To decrease fuel vapor pressure.
- C. To decrease tank internal air pressure.

104. What is used to polish commutators or slip ring?

- A. Double-zero sandpaper.
- B. Stiff bristle brushes.
- C. Emery Cloths.

105. ข้อใด “มิใช่” วิธีในการตรวจรอยร้าว

- ก. Radiographic Testing
- ข. Ultraviolet Testing
- ค. Ultrasonic Testing

106. การยกเลิกการงดบิน จะกระทำเมื่อได้รับคำสั่งปฏิบัติอย่างใดอย่างหนึ่งจาก

- ก. สำนักงานนิรภัยทหารอากาศ
- ข. สำนักงานการบิน กองทัพอากาศ
- ค. กรมช่างอากาศ

107. What FAA-approved document give the leveling means to be used when weighing an aircraft?

- A. Type certificate Data Sheet.
- B. AC 43.13-1B.
- C. Manufacturer’s maintenance manual.

108. What is the primary purpose of the crossfeed system?

- A. It allows any tank to supply fuel to any engines.
- B. It bypasses the engine shutoff valve if it fails.
- C. It divides the fuel and sends it to the injectors.

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109. Which of the following fire detection systems measures temperature rise compared to a reference temperature?

- A. Thermocouple.
- B. Thermal switch.
- C. Lindberg continuous element.

110. The viscosity of a liquid is a measure of its

- A. resistance to flow.
- B. rate of change.
- C. weight or density.

111. A capacitance-type fuel quantity indicating system measures fuel in

- A. pounds.
- B. pounds per hour.
- C. gallons.

112. What controls the constant-speed range of a constant-speed propeller?

- A. Engine RPM.
- B. Angle of climb and descent with accompanying changes in airspeed.
- C. The mechanical limits in the propeller pitch range.

113. The fuel flow indication system used with many fuel-injected opposed engine airplanes utilizes a measure of

- A. fuel flow volume.
- B. fuel pressure.
- C. fuel flow mass.

114. The general rule for finding the proper rivet diameter is

- A. three times the thickness of the materials to be jointed.
- B. two times the rivet length.
- C. three times the thickness of the thickest sheet.

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115. How dose temperature affect fuel weight?

- A. Cold fuel is heavier per gallon.
- B. Warm fuel is heavier per gallon.
- C. Temperature has no effect.

116. The fuel flow indication data sent from motor driven impeller and turbine, and motorless type fuel flow transmitters is a measure of

- A. fuel mass flow.
- B. fuel volume flow.
- C. engine burner pressure drop.

117. What should be clearly indicated on the aircraft weighing form?

- A. Minimum allowable gross weight.
- B. Weight of unusable fuel.
- C. Weighing points.

118. Turbine engine EGT thermocouples are constructed of

- A. Iron and Constantan.
- B. Copper and Constantan.
- C. Chromel and Alumel.

119. What is the ampere-hour rating of a storage battery that is designed to deliver 45 amperes for 2.5 hours?

- A. 112.5 ampere-hour.
- B. 90.0 ampere-hour.
- C. 45.0 ampere-hour

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120. The actual distance a propeller moves forward through the air during one revolution is known as the

- A. effective pitch.
- B. geometric pitch.
- C. relative pitch.

121. Which of the following is a primary engine instrument?

- A. Tachometer.
- B. Fuel flowmeter.
- C. Airspeed indicator.

122. กากบาทแดง (X) ในแบบพิมพ์ ทอ.ชอ.221-2 แสดงว่าอากาศยานอยู่ในสภาพใด

- ก. อากาศยานไม่อยู่ในสภาพที่น่าพอใจซึ่งอาจทำให้ประสิทธิภาพของการบินลดลง
- ข. ไม่ปลอดภัยที่จะใช้ทำการบิน จนกว่าจะได้ทำการแก้ไขข้อบกพร่องนั้นให้เรียบร้อย
- ค. การตรวจ การเปลี่ยนอุปกรณ์ที่มีกำหนดอายุใช้งาน หรือการบินทดสอบยังปฏิบัติไม่เสร็จเรียบร้อย

123. ข้อใดต่อไปนี้เป็น **ไม่ใช่** ชนิดของการผุกร่อน

- ก. Galvanometallic Corrosion
- ข. Uniform Etch Corrosion
- ค. Pitting Corrosion

124. A fuel pressure warning switch contacts close and warning light is turned on when

- A. a measured quantity of fuel has passed through it.
- B. the fuel flow stops.
- C. the fuel pressure drops below specified limits.

125. Improper loading of a helicopter which results in exceeding either the fore or aft CG limits is hazardous due to the

- A. reduction or loss of effective cyclic pitch control.
- B. Coriolis effect being translated to the fuselage.
- C. reduction or loss of effective collective pitch control.

แบบทดสอบประเมินตนเอง

126. The function of a fuel heater is to

- A. protect the engine fuel system from ice formation.
- B. protect the fuel from freezing.
- C. heat the fuel to combustion temperature.

127. What icing condition may occur when there is no visible moisture present?

- A. Injector ice.
- B. Inlet ice.
- C. Carburetor ice.

128. Which of the following is a function of the fuel/oil heat exchanger on a turbojet engine?

- A. Aerates the fuel.
- B. Emulsifies the oil.
- C. Increases fuel temperature.

129. Which of the following is the best means to use when removing wet snow from an aircraft?

- A. A brush or a squeegee.
- B. Hot air.
- C. Warm water.

130. ข้อใดมิใช่ประเภทของรอยตำหนิ

- ก. Inherent Defect
- ข. Primary Defect
- ค. Service Defect

131. Engine oil temperature gauges indicate the temperature of the oil

- A. entering the oil cooler.
- B. entering the engine.
- C. in the oil storage tank.

แบบทดสอบประเมินตนเอง

132. Alternators (AC generators) that are driven by a constant-speed drive (CSD) mechanism are used to regulate the alternator to a constant

- A. voltage output.
- B. amperage output.
- C. hertz output.

133. A fuel that does not vaporize readily enough can cause

- A. vapor lock.
- B. detonation.
- C. hard starting.

134. Fuel crossfeed systems are used in aircraft to

- A. purge the fuel tanks.
- B. jettison fuel in an emergency.
- C. maintain aircraft stability.

135. Find the empty weight CG location for the following tricycle-gear aircraft. Each main wheel weighs 753 pound, nosewheel weight 22 pound, distance between nosewheel and main wheels is 87.5 inches, with 1 gallon of hydraulic fluid at -21.0 inches included in the weight scale

- A. +97.375 inches.
- B. +95.61 inches.
- C. +96.11 inches.

136. สามารถผ่านทะลุชิ้นงานที่มีความหนากว่าหรือมีความหนาแน่นมากกว่าได้ หมายถึง

- ก. MA
- ข. FFD
- ค. kV

แบบทดสอบประเมินตนเอง

137. เอกสารใดสามารถใช้ในการอ้างอิง กับงานตรวจรอยร้าวได้

- ก. T.O.33B-1-1
- ข. SNT TC-1 A
- ค. ถูกทุกข้อ

138. A fuel strainer or filter must be located between the

- A. boost pump and tank outlet.
- B. tank outlet and the fuel metering device.
- C. boost pump and engine-driven fuel pump.

139. Which of these characteristics is desirable in turbine engine oil?

- A. Low flash point.
- B. High flash point.
- C. High volatility.

140. ข้อใดต่อไปนี้เป็น การซ่อมบำรุงในระดับแก้ไขการชำรุด

- ก. การซ่อมใหญ่เครื่องยนต์
- ข. การตรวจตามระยะเวลา
- ค. การบริการอากาศยาน

141. A fire involving energized electrical equipment is defined as a

- A. Class B fire.
- B. Class D fire.
- C. Class C fire.

142. The empty weight of an airplane is determined by

- A. adding the net weight of each weight point and multiplying the measured distance to the datum.
- B. subtracting the tare weight from the scale reading and adding the weight of each weight point.
- C. multiplying the measured distance from each weighing point to the datum times the sum of scale reading less the tare weight.

แบบทดสอบประเมินตนเอง

143. Why should a chemical rain repellent not be used on a dry windshield?

- A. It will etch the glass.
- B. It will restrict visibility.
- C. It will cause glass crazing.

144. Microswitches are used primarily as limit switches to

- A. limit generator output.
- B. control electrical units automatically.
- C. prevent overcharging of a battery.

145. If a fire extinguisher cartridge is removed from a discharge valve, it should be

- A. pressure checked.
- B. used only on the original discharge valve assembly.
- C. replaced with a new cartridge.

146. The types of fire-extinguishing agents for aircraft interior fires are

- A. water, carbon dioxide, dry chemical, and halogenated hydrocarbons.
- B. water, dry chemical, methyl bromide, and chlorobromomethane.
- C. water, carbon tetrachloride, carbon dioxide, and dry chemical.

147. TC.TO. ที่มีเครื่องหมายเส้นทแยงแดงสลั้กับเครื่องหมายกากบาทแดงในวงกลมแดง ทั้ง 4 ด้านของหน้าแรก คือเอกสารเทคนิคในข้อใด

- ก. Immediate Action
- ข. Urgent Action
- ค. Routine Action

แบบทดสอบประเมินตนเอง

148. What is a basic advantage of using AC for electrical power for a large aircraft?
- A. AC systems operate at higher voltage than DC systems and therefore use less current and can use smaller and lighter weight wiring.
 - B. AC systems operate at lower voltage than DC systems and therefore use less current and can use smaller and lighter weight wiring.
 - C. AC systems operate at higher voltage than DC systems and therefore use more current and can use smaller and lighter weight wiring.
149. Which of the following instrument discrepancies require replacement of the instrument?
- A. Red line missing from glass, glass cracked, fogged.
 - B. Glass cracked, will not zero out, pointer loose on shaft, fogged.
 - C. will not zero out, redline missing from glass, glass cracked.
150. What unit in a tachometer system send information to the indicator?
- A. The three-phase AC generator.
 - B. The two-phase AC generator.
 - C. The synchronous motor.
151. When referring to an electrical circuit diagram, what point is considered to be at zero voltage?
- A. The circuit breaker.
 - B. The switch.
 - C. The ground reference.
152. Smoke detectors that use a measurement of light transmissibility in the air are called
- A. thermocouple devices.
 - B. photoelectrical devices.
 - C. ultraviolet optical devices.

แบบทดสอบประเมินตนเอง

153. The maximum weight of an aircraft is the

- A. empty weight plus crew, maximum fuel, cargo, and baggage.
- B. empty weight plus crew, passengers, and fixed equipment.
- C. empty weight plus useful load.

154. A fire extinguisher container can be checked to determine its charge by

- A. attaching a remote pressure gauge.
- B. weighing the container and its contents.
- C. a hydrostatic test.

155. The thermocouple fire-warning system is activated by a

- A. certain temperature.
- B. core resistance drop.
- C. rate-of-temperature rise.

156. The method used to rapidly charge a nickel-cadmium battery utilizes

- A. constant current and constant voltage.
- B. constant current and varying voltage.
- C. constant voltage and varying current.

157. Through which material will magnetic lines of force pass the most readily?

- A. Copper.
- B. Iron.
- C. Aluminum.

158. Service Bulletin เป็นเอกสารเทคนิคสาย Commercial มีความหมายตรงกับเอกสารเทคนิคประเภทใดในสาย USAF.

- ก. Abbreviated
- ข. Technical Manual
- ค. Time Compliance Technical Order

แบบทดสอบประเมินตนเอง

159. What type of measurement is used to designate the arm in weight and balance computation?

- A. Distance.
- B. Weight.
- C. Weight. x distance.

160. what safety device is actuated by the compression and extension of a landing gear strut?

- A. Uplock switch.
- B. Downlock switch.
- C. Ground safety switch.

161. The proper fire-extinguishing agent to use on an aircraft brake fire is

- A. water
- B. carbon dioxide.
- C. dry powder chemical.

162. เอกสารเทคนิคที่ใช้ในการตรวจบริภัณฑ์ การควบคุมและการใช้พัสดุที่สามารถซ่อมได้ นโยบาย (Policy) วิธีการ (Method) และรายการปฏิบัติที่เกี่ยวข้องกับ Ground Handling of Aerospace Vehicles ได้แก่ข้อใด

- ก. Method and Procedures Technical Order
- ข. Time Compliance Technical Order
- ค. Abbreviated Technical Order

163. ข้อใด “ไม่ใช่” ความสมควรเดินอากาศตาม EASA Part 145

- ก. วิธีการซ่อมบำรุง (Maintenance Procedures)
- ข. วิธีการควบคุมคุณภาพ (Quality Procedures)
- ค. การบริหารความเสี่ยง (Risk Management)

164. Stall warning systems are generally designed to begin warning the pilot when a stall

- A. is imminent.
- B. is starting to occur.
- C. first affects the outboard portions of the wings.

แบบทดสอบประเมินตนเอง

165. Fuel lines are kept away from sources of heat, and sharp bends and steep rises are avoided to reduce the possibility of

- A. liquid lock.
- B. vapor lock.
- C. positive lock.

166. Which type of pump is commonly used as a fuel pump on reciprocating engines?

- A. Gear.
- B. Impeller.
- C. Vane.

167. Which of the following has the greatest effect on the viscosity of lubricating oil?

- A. Temperature.
- B. Engine RPM.
- C. Oil pressure.

168. where are the heating elements located on most aircraft with electrically heated windshields?

- A. Laminated in the glass.
- B. Attached to the glass.
- C. Inside the windshield frame.

169. what are three methods of anti-icing aircraft windshields?

- A. An electric heating element in the windshield, a heated air circulating system, and windshield wipers and anti-icing fluid.
- B. A blanket-type heating system, an electric heating element in the windshield, and a ribbon-type heating system.
- C. An electric heating element in the windshield, a heated air circulating system, and a hot water system.

แบบทดสอบประเมินตนเอง

170. What is used as a temperature-sensing element in an electrically heated windshield?

- A. Thermocouple.
- B. Thermistor.
- C. Thermometer.

171. “การแก้ไขการชำรุด” (Corrective Maintenance) คือการซ่อมบำรุงระดับใด

- ก. Depot Level Maintenance
- ข. Intermediate Level Maintenance
- ค. Organization Level Maintenance

172. ข้อใด “ไม่ใช่” ระดับขั้นการซ่อมบำรุง

- ก. Intermediate Level Maintenance
- ข. Installation Level Maintenance
- ค. Depot Level Maintenance

173. An antiskid system is designed to

- A. solely sense the deceleration rate of every main landing gear wheel.
- B. release then reapply pressure at a slightly lower value when a skid is detected only.
- C. sense the deceleration rate of every main landing gear wheel and release then reapply pressure at a slightly lower value when a skid is detected.

174. An antiskid system is

- A. a hydraulic system.
- B. an electrohydraulic system.
- C. an electrical system.

175. A drop in oil pressure may be caused by

- A. the temperature regulator sticking open.
- B. the bypass valve sticking open.
- C. foreign material under the relief valve.

แบบทดสอบประเมินตนเอง

176. When an electric primer is used, fuel pressure is built up by the

- A. internal pump in the primer solenoid.
- B. suction at the main discharge nozzle.
- C. booster pump.

177. Boost pumps in a fuel system

- A. operate during takeoff only.
- B. are primarily used for fuel transfer.
- C. provide a positive flow of fuel to the engine pump.

178. What is the primary purpose of the fuel/oil heat exchanger

- A. Cool the fuel.
- B. Cool the oil.
- C. De-aerate the oil.

179. An airspeed indicator measures the differential between

- A. pressure and temperature.
- B. pitot and cabin air pressure.
- C. pitot and static air pressure.

180. Fuel-boost pumps are operated

- A. to provide a positive flow of fuel to the engine.
- B. primarily for fuel transfer.
- C. automatically from fuel pressure.

181. Why is it necessary to vent all aircraft fuel tanks?

- A. To ensure a positive head pressure for a submerged boost pump.
- B. To exhaust fuel vapors.
- C. To limit pressure differential between the tank and atmosphere.

แบบทดสอบประเมินตนเอง

182. หมายเลขใดต่อไปนี้เป็นเอกสารเทคนิคประเภท Abbreviated Technical Order

- ก. TH1F – 16AM – 6WC – 1
- ข. TH1F – 16AM – 6009
- ค. TH1F – 16A –5-1

183. เอกสารเทคนิคสายบริษัท (Commercial) หมายเลข 28 – 11 – 31 ตัวเลข 11 หมายถึงข้อใด

- ก. CHAPTER
- ข. SECTION
- ค. SUBJECT

184. What physical factors are involved in the aspect ratio of airplane wings?

- A. Thickness and chord.
- B. Span and chord.
- C. Dihedral and angle of attack.

185. Improper rigging of the elevator trim tab system will affect the balance of the airplane about its

- A. lateral axis.
- B. longitudinal axis.
- C. vertical axis.

186. An airplane that has a tendency to gradually increase a pitching moment that has been set into motion has

- A. poor longitudinal stability.
- B. good lateral stability.
- C. poor lateral stability.

187. A fuel or oil fire is defined as a

- A. Class B fire.
- B. Class A fire.
- C. Class C fire.

แบบทดสอบประเมินตนเอง

188. A helicopter in forward flight, cruise configuration, changes direction by

- A. varying the pitch of the main rotor blades.
- B. changing rotor RPM.
- C. tilting the main rotor disk in the desired direction.

189. Movement about the longitudinal axis (roll) in a helicopter is effected by movement of the

- A. Collective pitch control.
- B. cyclic pitch control.
- C. reduce lift.

190. The electrolyte of a nickel-cadmium battery is the lowest when the battery is

- A. being charged.
- B. in a discharged condition.
- C. under a heavy load condition.

191. The electrolyte of a nickel cadmium battery is highest when the battery is

- A. in a fully charged condition.
- B. in a discharged condition.
- C. under a no-load condition.

192. If a single-rotor helicopter is in forward horizontal flight, the angle of attack of the advancing blade is

- A. more than the retreating blade.
- B. equal to the retreating blade.
- C. less than the retreating blade.

193. An airplane is controlled directionally about its vertical axis by the

- A. rudder.
- B. elevator(s).
- C. ailerons.

แบบทดสอบประเมินตนเอง

194. At what stage in a turbine engine are gas pressures the greatest?

- A. Compressor inlet.
- B. Turbine outlet.
- C. Compressor outlet.

195. Which of the following can cause fan blade shingling in a turbofan engine?

- A. Engine overtemperature.
- B. Large, rapid throttle movements.
- C. Engine overspeed and/or FOD.

196. Compressor stall is caused by

- A. a low angle of attack airflow through the first stages of compression.
- B. a high angle of attack airflow through the first stages of compression.
- C. rapid engine deceleration.

197. Valve overlap is defined as the number of degrees of crankshaft travel

- A. during which both valves are off their seats.
- B. between the closing of the intake valve and the opening of the exhaust valve.
- C. during which both valves are on their seats.

198. If the exhaust valve of a four-stroke cycle engine is closed and the intake valve is just closed, the piston is on the

- A. intake stroke.
- B. power stroke.
- C. compression stroke.

199. Compression ratio is the ratio between the

- A. piston travel on the compression stroke and on the intake stroke.
- B. combustion chamber pressure on the combustion stroke and on the exhaust stroke.
- C. cylinder volume with piston at bottom dead center and at top dead center.

แบบทดสอบประเมินตนเอง

200. what is the purpose of a power check on a reciprocating engine?

- A. To check magneto drop.
- B. To determine satisfactory performance.
- C. To determine if the fuel/air mixture is adequate.

201. If the control stick of an aircraft with properly rigged flight controls is moved rearward and to the left, the right aileron will move

- A. down and the elevator will move down.
- B. up and the elevator will move down.
- C. down and the elevator will move up.

202. If the control stick of an aircraft with properly rigged flight controls is moved forward and to the right, the left aileron will move

- A. up and the elevator will move down.
- B. down and the elevator will move up.
- C. down and the elevator will move down.

203. Which unit most accurately indicates fuel consumption of reciprocating engine?

- A. Fuel flowmeter.
- B. Fuel pressure gauge.
- C. Electronic fuel quantity indicator.

204. Motor-driven impeller and turbine fuel flow transmitters are designed to transmit data

- A. using aircraft electrical system power.
- B. mechanically.
- C. by fuel pressure.

205. The correct way to connect a test voltmeter in a circuit is

- A. in series with a unit.
- B. between the source voltage and the load.
- C. in parallel with a unit.

แบบทดสอบประเมินตนเอง

206. Which term means .001 ampere?

- A. Microampere.
- B. Kiloampere.
- c. Milliampere.

207. 0.002 kV equals

- A. 20 volts.
- B. 2.0 volts.
- C. 0.2 volts.

208. What unit is used to express electrical power?

- A. Volt.
- B. Watt.
- C. Ampere.

209. The horsepower developed in the cylinders of a reciprocating engine is known as the

- A. shaft horsepower.
- B. indicated horsepower.
- C. brake horsepower.

210. Excessive valve clearance in a piston engine

- A. increases valve overlap.
- B. increases valve overing time.
- C. decreases valve overlap.

211. One cause of afterfiring in an aircraft engine is

- A. sticking intake valves.
- B. an excessively lean mixture.
- C. an excessively rich mixture.

แบบทดสอบประเมินตนเอง

212. At what point in an axial-flow turbojet engine will the highest gas pressures occur?

- A. At the turbine entrance.
- B. Within the burner section.
- C. At the compressor outlet.

213. The compression ratio of an axial-flow compressor is a function of the

- A. number of compressor stage.
- B. rotor diameter.
- C. air inlet velocity.

214. The exhaust section of a turbine engine is designed to

- A. impact a high exit velocity to the exhaust gases.
- B. increase temperature, therefore increasing velocity.
- C. decrease temperature, therefore decreasing pressure.

215. Which of the following types of combustion sections are used in aircraft turbine engines?

- A. Annular, variable, and cascade vane.
- B. Can, multiple-can, and variable.
- C. Multiple-can, annular, and can-annular.

216. A turn coordinator instrument indicate

- A. the longitudinal attitude of the aircraft during climb and descent.
- B. the need for corrections in pitch and bank.
- C. both roll and yaw.

217. Turbine engine exhaust gas temperatures are measured by using

- A. iron/constantan thermocouples.
- B. chromel /alumel thermocouples.
- C. ratiometer electrical resistance thermometers.

แบบทดสอบประเมินตนเอง

218. Fuel flow transmitters are designed to transmit data

- A. mechanically.
- B. electrically.
- C. utilizing fluid power.

219. Which instrument are connected to an aircraft's static pressure system only?

- A. Vertical speed indicator and altimeter.
- B. Cabin altimeter and rate-of-change indicator.
- C. Vertical speed indicator, altimeter, and airspeed indicator.

220. Which of the following operating mechanisms would be found in a hydraulic pressure gauge?

- A. Bourdon tube.
- B. Pressure diaphragm.
- C. Evacuated bellows.

221. Overinflated aircraft tires may cause damage to the

- A. brake linings.
- B. wheel hub.
- C. wheel flange.

222. Power boost brake systems are used on aircraft that have

- A. high landing speeds.
- B. low normal hydraulic system pressure.
- C. more than one brake assembly per axle.

223. What is the major function of the turbine assembly in a turbojet engine?

- A. Directs the gases in the proper direction to the tailpipe.
- B. Supplies the power to turn the compressor.
- C. Increases the temperature of the exhaust gases.

แบบทดสอบประเมินตนเอง

224. Stator blades in the compressor section of an axial-flow turbine engine

- A. increase the air velocity and prevent swirling.
- B. straighten the airflow and accelerate it.
- C. decrease the air velocity and prevent swirling.

225. The elevators of a conventional airplane are used to provide rotation about the

- A. longitudinal axis.
- B. lateral axis.
- C. vertical axis.

226. How often should standard weight high-pressure oxygen cylinders be hydrostatically tested?

- A. Every 5 years.
- B. Every 4 years.
- C. Every 3 years.

227. The purpose of wing slats is to

- A. reduce stalling speed.
- B. decrease drag.
- C. reduce lift.

228. The purpose of the vertical fin is to provide

- A. directional stability.
- B. longitudinal stability.
- C. lateral stability.

229. With which system is differential control associated?

- A. Trim.
- B. Aileron.
- C. Elevator.

แบบทดสอบประเมินตนเอง

230. Differential control on an aileron system means that
- A. the down travel is more than the up travel.
 - B. the up travel is more than the down travel.
 - C. one aileron on one wing travels further up than the aileron on the opposite wing to adjust for wash-in and wash-out.
231. The purpose of a relief valve in a brake system is to
- A. reduce pressure for brake application.
 - B. prevent the tire from skidding.
 - C. compensate for thermal expansion.
232. Aircraft tire pressure should be checked
- A. using only a push on stick-type gauge having one-pound increments.
 - B. at least once a week or more often.
 - C. as soon as possible after each flight.
233. The stator vanes in an axial-flow compressor
- A. convert velocity energy into pressure energy.
 - B. convert pressure energy into velocity energy.
 - C. direct air into the first stage rotor vanes at the proper angle.
234. Generally, when starting a turbine engine, the starter should be disengaged
- A. after the engine has reached self-accelerating.
 - B. only after the engine has reached full idle RPM.
 - C. when the ignition and fuel system are activated.
235. A gas turbine engine comprises which three main section?
- A. Compressor, diffuser, and stator.
 - B. Turbine, combustion, and stator.
 - C. Turbine, compressor, and combustion.

แบบทดสอบประเมินตนเอง

236. The air passing through the combustion chamber of a turbine engine is

- A. used to support combustion and to cool the engine.
- B. entirely combined with fuel and burned.
- C. speeded up and heated by the action of the turbines.

237. The circuit breaker in the instrument lighting system protects the

- A. lights from too much current.
- B. wiring from too much current.
- C. wiring from too much voltage.

238. A voltage regulator controls generator voltage by changing the

- A. resistance in the generator output circuit.
- B. current in the generator output circuit.
- C. resistance of the generator field circuit.

239. The purpose of a rectifier in an electrical system is to change

- A. the frequency of alternating current.
- B. direct current to alternating current.
- C. alternating current to direct current.

240. Which instruments are connected to an aircraft's pitot-static system?

- A. Cabin altimeter and cabin rate-of-change indicator.
- B. Vertical speed indicator and altimeter.
- C. Vertical speed indicator, altimeter, and airspeed indicator.

241. How would an airspeed indicator be marked to show the best rate-of-climb speed (one engine inoperative)?

- A. A red radial line.
- B. A blue radial line.
- C. A green arc.

แบบทดสอบประเมินตนเอง

242. The green arc on an aircraft temperature gauge indicates

- A. the instrument is not calibrated.
- B. the desirable temperature range.
- C. a low, unsafe temperature range.

243. The pressure source for power brakes is

- A. the main hydraulic system.
- B. the power brake reservoir.
- C. a master cylinder.

244. What should be checked when a shock strut bottoms during a landing?

- A. Air pressure.
- B. Packing seals for correct installation.
- C. Fluid level.

245. Excessive wear in the shoulder area of an aircraft tire is an indication of

- A. overinflation.
- B. excessive toe-in.
- C. underinflation.

246. Excessive wear in the center tread of an aircraft tire is an indication of

- A. misalignment.
- B. underinflation.
- C. overinflation.

247. In shock struts, chevron seals are used to

- A. absorb bottoming effect.
- B. prevent oil from escaping.
- C. serve as a bearing surface.

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248. Which of the following allows fluid to flow unimpeded in one direction but prevents fluid flow in the other direction?

- A. Check valve.
- B. Sequence valve.
- C. Relief valve.

249. The component in the hydraulic system that is used to direct the flow of fluid is the

- A. check valve.
- B. orifice Check valve.
- C. selector valve.

250. A crossflow valve which is designed to bypass fluid from one side of an actuating cylinder to the other side, under certain conditions, may be found in some aircraft installed in the

- A. flap overload system.
- B. engine cowl flap system.
- C. landing gear system.

251. What turbine engine section provide for proper mixing of the fuel and air?

- A. Combustion Section.
- B. Compressor section.
- C. Diffuser section.

252. Where is the highest gas pressure in a turbojet engine?

- A. At the outlet of the tailpipe section.
- B. At the entrance of the turbine section.
- C. In the entrance of the burner section.

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253. What component of a pressurization system prevents the cabin altitude from becoming higher than airplane altitude?

- A. Cabin rate-of-descent control.
- B. Negative pressure relief valve.
- C. Positive pressure relief valve.

254. When an aircraft altimeter is set at 29.92 Hg on the ground, the altimeter will read

- A. pressure altitude.
- B. density altitude.
- C. field elevation.

255. What does a rectifier do?

- A. Changes direct current into alternating current.
- B. Changes alternating current into direct current.
- C. Reduces voltage.

256. Aircraft fuse capacity is rated in

- A. Volts.
- B. Ohms.
- C. amperes.

257. Electric circuits are protected from overheating by

- A. thermocouples.
- B. AN/MS connectors.
- C. fuses.

258. Bonding connections should be tested for

- A. resistance value.
- B. amperage value.
- C. reactance.

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259. Why is the main fuel strainer located at the lowest point in the fuel system?
- A. It traps any small amount of water that may be present in the fuel system.
 - B. It is near the fuel tank heater to help prevent vapor lock in the system.
 - C. It filters and traps all micro-organisms that may be present in the fuel system.
260. A drip gauge may be used to measure
- A. the amount of fuel in the tank.
 - B. system leakage with the system shut down.
 - C. fuel pump diaphragm leakage.
261. An advantage of the axial-flow compressor is its
- A. low starting power requirements.
 - B. low weight.
 - C. high peak efficiency
262. What is one purpose of the stator blades in the compressor section of a turbine engine?
- A. Stabilize the pressure of the airflow.
 - B. Control the direction of the airflow.
 - C. Increase the velocity of the airflow.
263. If it is necessary to use an electrical connector where it may be exposed to moisture, the mechanic should
- A. coat the connector with grease.
 - B. use a special moisture-proof type.
 - C. spray the connector with varnish or zinc-chromate.
264. What is an important factor in selecting aircraft fuses?
- A. The current exceeds a predetermined value.
 - B. The voltage rating should be lower than the maximum circuit voltage.
 - C. Capacity matches the needs of the circuit.

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265. How are generators rated?

- A. Watts at rated voltage.
- B. Amperes at rated voltage.
- C. The impedance at rated voltage.

266. What is the frequency of an alternator dependent upon?

- A. Voltage.
- B. RPM.
- C. Current.

267. When fuel quantity is measured in pounds instead of gallons, the measurement will be more accurate because fuel volume

- A. varies with temperature change.
- B. increases when temperature decreases.
- C. varies with changes in atmospheric pressure.

268. Select one means of controlling the fuel temperature on turbine-powered aircraft

- A. Engine bleed air to the fuel filter.
- B. Engine bleed air to the fuel tank.
- C. Engine bleed air to a heat exchanger.

269. A pilot reports the brake pedals have excessive travel. A probable cause is

- A. weak return springs.
- B. lack of fluid in the brake system.
- C. oil or some foreign matter on the brake rotors and linings.

270. When servicing aircraft hydraulic systems, use the type fluid specified in the

- A. aircraft manufacturer's maintenance manual.
- B. instruction plate affixed to the unit.
- C. aircraft manufacturer's maintenance manual or instruction plate affixed to the unit.

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271. The purpose of a hydraulic pressure regulator is to

- A. prevent the system pressure from rising above a predetermined amount due to thermal expansion.
- B. boost the pressure in portions of the system.
- C. relieve the pump of its load when no actuating units are being operated.

272. Petroleum-base hydraulic fluid is which color?

- A. Purple.
- B. Blue.
- C. Red.

273. What type of valve in an aircraft hydraulic system permits fluid to flow freely in one direction, but restricts the rate at which fluid is allowed to flow in the other direction?

- A. Check valve.
- B. Orifice restrictor.
- C. Orifice check valve.

274. How should a voltmeter be connected?

- A. In series with the source.
- B. In parallel with the load.
- C. In series with the load.

275. The red radial lines on the face of an engine oil pressure gauge indicates

- A. minimum engine safe RPM operating range.
- B. minimum precautionary safe operating range.
- C. minimum and/ or maximum safe operating limits.

276. Which should be accomplished before jacking an aircraft?

- A. Install critical stress panels or plates.
- B. Determine that the fuel tanks are empty.
- C. Make sure the aircraft is leveled laterally.

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277. Turbine engine air used for air conditioning and pressurization is generally called

- A. compressed air.
- B. ram air.
- C. bleed air.

278. What controls the operation of the cabin pressure regulator?

- A. Cabin altitude.
- B. Bleed air pressure.
- C. Compression air pressure.

279. What is the purpose of the diffuser section in a turbine engine?

- A. To increase pressure and reduce velocity.
- B. To convert pressure to velocity.
- C. To reduce pressure and increase velocity.

280. The diffuser section of a jet engine is located between

- A. the burner section and the turbine section.
- B. station 7 and station 8.
- C. the compressor section and the burner section.

281. Normal fuel crossfeed system operation in multi-engine aircraft

- A. calls for jettisoning of fuel overboard to correct lateral instability.
- B. reduces contamination and/or fire hazards during fueling or defueling operations.
- C. provides a means to maintain a balanced fuel load condition.

282. What unit is generally used to actuate the fuel pressure warning system?

- A. Fuel flowmeter.
- B. Pressure-sensitive mechanism.
- C. Fuel pressure gauge.

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283. the primary purpose of a hydraulic actuating unit is to transform

- A. fluid motion into mechanical pressure and back again.
- B. fluid pressure into useful work.
- C. energy from one form to another.

284. Hydraulic system thermal relief valves are set to open at a

- A. lower pressure than the system relief valve.
- B. higher pressure than the system relief valve.
- C. lower pressure than the system pressure regulator.

285. How many of the following are controlled by gyroscopes?

- 1. Attitude indicator.
 - 2. Heading indicator.
 - 3. Turn needle of the turn-slip indicator.
- A. Three.
 - B. Two.
 - C. One.

286. Instrument panel shock mounts absorb

- A. high energy impact shocks caused by hard landings.
- B. low-frequency, high-amplitude shocks.
- C. high G shock loads imposed by turbulent air.

287. A weak fuel to air mixture along with normal airflow through a turbine engine may result in

- A. a rich flameout.
- B. a lean die-out.
- C. high EGT.

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288. The highest heat-to-metal contact in a jet engine is the

- A. burner cans.
- B. turbine inlet guide vanes.
- C. turbine blades.

289. A purpose of the shrouds on the turbine blades of an axial-flow engine is to

- A. reduce vibration.
- B. increase tip speed.
- C. reduce air entrance.

290. The turbine section of a jet engine

- A. increases air velocity to generate thrust forces.
- B. utilizes heat energy to expand and accelerate the incoming gas flow.
- C. drives the compressor section.

291. What are the two basic elements of the turbine section in a turbine engine?

- A. Impeller and diffuser.
- B. Hot and cold.
- C. Stator and rotor.

292. A hydraulic accumulator is charged with an air preload of 1,000 psi. When a hydraulic system pressure of 3,000 psi is developed, the pressure on the air side of the accumulator will be

- A. 1,000 psi.
- B. 3,000 psi.
- C. 4,000 psi.

293. Which instrument condition is acceptable and would not require correction?

- A. Red line missing.
- B. Case paint chipped.
- C. Fogged.

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294. A barometric altimeter indicates pressure altitude when the barometric scale is set at

- A. 29.92 Hg.
- B. 14.7 Hg.
- C. field elevation.

295. Which of the following acts as a diffuser in a turbine engine and converts velocity to pressure?

- A. Impeller.
- B. Manifold.
- C. Stators.

296. What are the two functional elements in a centrifugal compressor?

- A. Turbine and compressor.
- B. Bucket and expander.
- C. Impeller and diffuser.

297. In a dual axial-flow compressor, the first stage turbine drives

- A. N2 compressor.
- B. N1 compressor.
- C. low pressure compressor.

298. Data transmitted between components in an EFIS are converted into

- A. digital signals.
- B. analog signals.
- C. carrier wave signals.

299. What marking color is used to indicate if a cover glass has slipped?

- A. Red.
- B. White.
- C. Yellow.

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300. A Bourdon tube instrument may be used to indicate

- A. pressure and temperature.
- B. temperature and position.
- C. position and pressure.