04/13/2005

Bank: (RTG - General Questions)

Airman Knowledge Test Question Bank

Generated for St. George applicants retesting for the Aviation Mechanic Airframe and Powerplant Exams (General Questions).

The FAA computer-assisted testing system is supported by a series of supplement publications. These publications, available through several aviation publishers, include the graphics, legends, and maps that are needed to successfully respond to certain test items.

1. A04G AMG

Which is correct concerning a parallel circuit?

- A) Total resistance will be smaller than the smallest resistor.
- B) Total resistance will decrease when one of the resistances is removed.
- C) Total voltage drop is the same as the total resistance.

2. A04G AMG

Which statement is correct when made in reference to a parallel circuit?

- A) The current is equal in all portions of the circuit.
- B) The total current is equal to the sum of the currents through the individual branches of the circuit.
- C) The current in amperes can be found by dividing the EMF in volts by the sum of the resistors in ohms.

3. A04G AMG

Transfer of electric energy from one circuit to another without the aid of electrical connections A) is called induction.

- B) is called capacitance.
- C) can cause excessive arcing and heat, and as a result is practical for use only with low voltages/amperages.

4. A04G AMG

Which of these will cause the resistance of a conductor to decrease?

- A) Decrease the length or the cross sectional area.
- B) Decrease the length or increase the cross sectional area.
- C) Increase the length or decrease the cross sectional area.

5. A04G AMG

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

A) Coppe	ır.	
B) Iron.		
C) Alumir	num.	
ŕ		
6.	A04G	AMG
		, and 22 ohms are connected in series in a 28-volt circuit,
	h current will flow through	the 3-onm resistor?
A) 9.3 am		
B) 1.05 a		
C) 0.93 a	mpere.	
7.	A04G	AMG
(Refer to	General figure 11.) Find th	e total current flowing in the wire between points C and D.
A) 6.0 am	nperes.	
B) 2.4 am	nperes.	
C) 3.0 am	nperes.	
•	1010	4440
8.	A04G	AMG
·		ltage step up transformer with a ratio of 1 to 4?
•	urrent is stepped down by a	
	urrent is stepped up by a 1	to 4 ratio.
C) The cu	urrent does not change.	
9.	A04G	AMG
(Refer to	General figure 13.) Determ	nine the total current flow in the circuit.
A) 0.2 am	npere.	
B) 1.4 am	nperes.	
C) 0.8 am	npere.	
10.	A04G	AMG
	quires the most electrical p	
vvilicii ici	quires the most electrical p	NOWEL :
(Note: 1 I	norsepower = 746 watts)	
A) Four 3	0-watt lamps arranged in a	a 12-volt parallel circuit.
B) A 1/5-I	horsepower, 24-volt motor	which is 75 percent efficient.
C) A 24-v	olt anticollision light circuit	consisting of two light assemblies which require 3 amperes
•	ng operation.	- · · · · · · · · · · · · · · · · · · ·
11.	A04G	AMG
vvnat unii	t is used to express electric	oai powei !

A) Volt.B) Watt.C) Ampere.		
12.Which of the followA) Anodes.B) Cathodes.C) Diodes.	A04G ving are commonly used as rectifi	AMG ers in electrical circuits?
13.What is the operatA) 1.07 ohms.B) 26 ohms.C) 0.93 ohm.	A04G ting resistance of a 30-watt light b	AMG bulb designed for a 28-volt system?
14. (Refer to General f A) 16 ohms. B) 2.6 ohms. C) 21.2 ohms.	A04G figure 12.) Find the total resistand	AMG ce of the circuit.
15.(Refer to GeneralA) 25 ohms.B) 35 ohms.C) 17 ohms.	A04G figure 14.) The total resistance of	AMG the circuit is
	A04G s required to furnish 192 watts to nat is the value of each resistor?	AMG a parallel circuit consisting of three resistors
	A04G A 24-volt source is required to furn qual value. What is the value of ea	AMG hish 48 watts to a parallel circuit consisting of ach resistor?

C) 6 ohms.		
18.	A04G	AMG
The voltage dro	op in a circuit of known	resistance is dependent on
A) the voltage	of the circuit.	
B) only the resi	istance of the conductor	r, and does not change with a change in either voltage
C) the amperag	ge of the circuit.	
19.	A04G	AMG
		volts and a load consisting of a 10-ohm resistor in seritage drop across the 10-ohm resistor?
A) 10 volts.		
B) 20 volts.		
C) 30 volts.		
20.	A04G	AMG
(Refer to Gene	ral figure 11.) Find the	voltage across the 8-ohm resistor.
A) 8 volts.		-
B) 20.4 volts.		
C) 24 volts.		
21.	A06G	AMG
	mperes to a load of 2 of	ected in series (no load voltage = 2.1 volts per cell) ams resistance. The internal resistance of the battery
A) 0.52 ohm.		
B) 2.52 ohms.		
C) 5.0 ohms.		
22.	A06G	AMG
A fully charged because	lead acid battery will n	ot freeze until extremely low temperatures are reache
A) the acid is ir	n the plates, thereby inc	reasing the specific gravity of the solution.
B) most of the	acid is in the solution.	
C) increased in	nternal resistance gener	ates sufficient heat to prevent freezing.
23.	A06G	AMG
What determine		at which will flow through a battery while it is being

B) The state of cha	arge of the battery. ur capacity of the battery.	
24.	A06G	AMG
		he plates in a lead acid battery's cell container is
A) allow for convec	ction flow of the electrolyte in	order to provide for cooling of the plates.
B) prevent sedime	nt buildup from contacting the	e plates and causing a short circuit.
C) ensure that the	electrolyte quantity ratio to the	ne number of plates and plate area is adequate.
25.	A06G	AMG
Nickel-cadmium babecause	atteries which are stored for a	a long period of time will show a low liquid level
A) electrolyte evap	orates through the vents.	
B) of current leaka	ge from individual cells.	
C) electrolyte beco	omes absorbed into the plate:	S.
26.	A06G	AMG
In nickel cadmium	batteries, a rise in cell tempe	erature
A) causes an incre	ease in internal resistance.	
B) causes a decrea	ase in internal resistance.	
C) increases cell ve	oltage.	
27.	A06G	AMG
	ving best describes the contrinstalled in an aircraft?	buting factors to thermal runaway in a nickel-
, 0	sistance intensified by high crate in a constant potential (v	ell temperatures and a high current oltage) charging system.
	sistance intensified by high ce rate in a constant current cha	ell temperatures and a high voltage irging system.
,	sistance intensified by high corate in a constant potential (v	ell temperatures and a high current oltage) charging system.
28.	A06G	AMG
	ny small amount of potassiun ells in service is an indicatior	n carbonate deposits on the top of nickel- n of
A) normal operation	n.	
B) excessive gassi	ng.	
C) plate sulfation.		
29.	A06G	AMG

If electrolyte from a lead-acid battery is spilled in the battery compartment, which procedure should be followed?

- A) Apply boric acid solution to the affected area followed by a water rinse.
- B) Rinse the affected area thoroughly with clean water.
- C) Apply sodium bicarbonate solution to the affected area followed by a water rinse.

30. A06G AMG

Which statement regarding the hydrometer reading of a lead acid storage battery electrolyte is true?

- A) The hydrometer reading does not require a temperature correction if the electrolyte temperature is 80 °F.
- B) A specific gravity correction should be added to the hydrometer reading if the electrolyte temperature is below 59 °F.
- C) The hydrometer reading will give a true indication of the capacity of the battery regardless of the electrolyte temperature.

31. A06G AMG

Which of the following statements is/are generally true regarding the charging of several aircraft batteries together?

- 1. Batteries of different voltages (but similar capacities) can be connected in series with each other across the charger, and charged using the constant current method.
- 2. Batteries of different ampere-hour capacity and same voltage can be connected in parallel with each other across the charger, and charged using the constant voltage method.
- 3. Batteries of the same voltage and same ampere-hour capacity must be connected in series with each other across the charger, and charged using the constant current method.
- A) 3.
- B) 2 and 3.
- C) 1 and 2.

32. A06G AMG

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.

33. A06G AMG

What is the likely result of servicing and charging nickel-cadmium and lead acid batteries together in the same service area?

- A) Lowered amp-hour capacities, especially for the nickel-cadmium batteries.
- B) A somewhat reduced battery service life for both types of batteries.
- C) Contamination of both types of batteries.

34.	A06G	AMG
The end of charge	voltage of a 19 cell nickel cadmin	um battery, measured while still on charge,
A) must be 1.2 to 1	.3 volts per cell.	
B) must be 1.4 volt	s per cell.	
C) depends upon it	ts temperature and the method u	sed for charging.
35.	A06G	AMG
How can the state	of charge of a nickel cadmium ba	attery be determined?
A) By measuring th	ne specific gravity of the electroly	te.
B) By a measured	discharge.	
C) By the level of the	he electrolyte.	
36.	A06G	AMG
What may result if	water is added to a nickel cadmi	um battery when it is not fully charged?
A) Excessive electr	rolyte dilution.	
B) Excessive spew	ring is likely to occur during the c	harging cycle.
C) No adverse effe	cts since water may be added ar	nytime.
37.	A06G	AMG
When a charging c	urrent is applied to a nickel cadn	nium battery, the cells emit gas only
A) toward the end	of the charging cycle.	
B) when the electro	olyte level is low.	
C) if they are defec	tive.	
38.	A06G	AMG
Which condition is battery?	an indication of improperly torqu	ed cell link connections of a nickel cadmium
A) Light spewing at	t the cell caps.	
B) Toxic and corros	sive deposits of potassium carbo	nate crystals.
C) Heat or burn ma	arks on the hardware.	
39.	A03G	AMG
Which term means	.001 ampere?	
A) Microampere.		
B) Kiloampere.		
C) Milliampere.		
40.	A03G	AMG
		o the circuit as shown, what will the
ohmmeter read?		, , , , , , , , , , , , , , , , , , , ,

A) 20 ohms.		
B) Infinite resista	nce.	
C) 10 ohms.		
	4000	****
41.	A03G	AMG
(Refer to Genera correctly?	Il figure 9.) How many instrument	s (voltmeters and ammeters) are installed
A) Three.		
B) One.		
C) Two.		
42.	A03G	AMG
The correct way	to connect a test voltmeter in a c	ircuit is
A) in series with	a unit.	
B) between the s	source voltage and the load.	
C) in parallel with	n a unit.	
10	4000	****
43.	A03G	AMG
,		at terminal D, what will the ohmmeter read?
A) Infinite resista	ince.	
B) 10 ohms.		
C) 20 ohms.		
44.	A03G	AMG
	Il figure 6.) If resistor R5 is discorthe ohmmeter read?	nnected at the junction of R4 and R3 as
A) 2.76 ohms.		
B) 3 ohms.		
C) 12 ohms.		
45.	A03G	AMG
	or is to be installed in a series circequired to dissipate?	cuit carrying .05 ampere. How much power will
A) At least .70 m	·	
B) At least 35 mi		
C) Less than .03		
46.	A03G	AMG
-		
	tage across the 10-watt light is m	20 watts are connected in parallel to a 30-volt neasured, it will be
A) equal to the ve	oltage across the 20-watt light.	

B) half the voltage C) one-third of the	across the 20-watt light. input voltage.		
47. (Refer to General f terminals A and B? A) 1.5 volts. B) 3.0 volts. C) 6.0 volts.		AMG voltage of the series parallel circuit between	
48002KV equals A) 20 volts. B) 2.0 volts. C) .2 volt.	A03G	AMG	
49. (Refer to figure 25.0 A) only when all inputs a C) when one or mo	puts are 0. are 1.	AMG rcuit, the depicted logic gate's output will be	
A) Any input being B) Any input being	A05G figure 24.) Which statement conc 1 will produce a 0 output. 1 will produce a 1 output. be 1 to produce a 1 output.	AMG erning the depicted logic gate is true?	
51. A05G AMG In a P-N-P transistor application, the solid state device is turned on when the A) base is negative with respect to the emitter. B) base is positive with respect to the emitter. C) emitter is negative with respect to the base.			
52.Forward biasing ofA) conduct via zenB) conduct.C) turn off.	A05G a solid state device will cause there and the state device will cause the state of the stat	AMG ne device to	

53.	A05G	AMG
Typical application	n for zener diodes is as	
A) full-wave rectifi	iers.	
B) half-wave recti	fiers.	
C) voltage regulat	tors.	
,		
54.	A05G	AMG
In an N-P-N trans	istor application, the solid state d	evice is turned on when the
A) emitter is positi	ive with respect to the base.	
B) base is negativ	ve with respect to the emitter.	
C) base is positive	e with respect to the emitter.	
55.	A05G	AMG
(Refer to General current (positive of		prrect concerning bias application and
A) 1.		
B) 2.		
C) 3.		
56.	A05G	AMG
When referring to	an electrical circuit diagram, wha	t point is considered to be at zero voltage?
A) The circuit brea	aker.	
B) The ground ref	erence.	
C) The switch.		
57.	A05G	AMG
(Refer to figure 21	1.) Which symbol represents a va	riable resistor?
A) 2.		
B) 1.		
C) 3.		
,		
58.	A05G	AMG
(Refer to General	figure 17.) Which of the compone	ents is a potentiometer?
A) 5.		
B) 3.		
C) 11.		
•		
59.	A05G	AMG

A) close the PU	SH TO TEST circuit.	
B) open the UP	indicator light circuit when	the landing gear is retracted.
C) close the UP	indicator light circuit when	the landing gear is retracted.
60.	A05G	AMG
	Ising the schematic, identif	th the fuel tank selector switch selected to the left by the switches that will change position.
B) 3, 5, 6, 7, 11,		
C) 5, 6, 11, 12,		
0) 0, 0, 11, 12,	10, 10, 10.	
61.	A05G	AMG
A thermal switch	n, as used in an electric mo	otor, is designed to
A) close the inte	gral fan circuit to allow coo	oling of the motor.
B) open the circ	uit in order to allow cooling	of the motor.
C) reroute the ci	ircuit to ground.	
62.	A05G	AMG
(Refer to figure tank selector is		erate if 24 volts dc is applied to the bus and the fuel
A) right hand tar	nk position.	
B) crossfeed pos	sition.	
C) left hand tank	k position.	
63.	A05G	AMG
	al figure 16.) With power to many relays in the system	o the bus and the fuel selector switched to the right are operating?
A) Three.		
B) Two.		
C) Four.		
64.	A05G	AMG
(Refer to General energized?	al figure 16.) When electric	cal power is applied to the bus, which relays are
A) PCC and TC	C.	
B) TCC and TC0	0.	
C) PCO and PC	C.	
65.	A05G	AMG
	al figure 18.) When the lan Il not sound if an open occ	iding gears are up and the throttles are retarded, the urs in wire

A) NI= 4		
A) No. 4.		
B) No. 2.		
C) No. 9.		
66.	A05G	AMG
(Refer to figu landing gears	•	e switch must be placed in the neutral position when the
A) permit the	test circuit to operate.	
B) prevent th	e warning horn from so	unding when the throttles are closed.
C) remove th	e ground from the gree	n light.
67.	A05G	AMG
•		which condition will a ground be provided for the warning en the throttles are closed?
A) Right gear	up and left gear down.	
B) Both gears	s up and the control val	ve out of neutral.
C) Left gear (up and right gear down.	
68.	A05G	AMG
	re 19.) When the throttle	es are retarded with only the right gear down, the warning s in wire
A) No. 5.		
B) No. 13.		
C) No. 6.		
69.	A05G	AMG
	re 19.) When the landin	g gears are up and the throttles are retarded, the warning in wire
A) No. 5.		
B) No. 7.		
C) No. 6.		
70.	A05G	AMG
(Refer to Ger circuit will	neral figure 20.) Trouble	shooting an open circuit with a voltmeter as shown in this
A) permit cur	rent to flow and illumina	te the lamp.
B) create a lo	ow resistance path and	the current flow will be greater than normal.
C) permit the	battery voltage to appe	ear on the voltmeter.
71.	A05G	AMG
		cks in the up position, the light will
, - , , , , , , , , , , , , , , , , , ,	<u> </u>	

A) be on full be	right.	
B) be very dim	ı .	
C) not illumina	te.	
72.	A05G	AMG
	eral figure 15.) With the landing geopen occurs in wire	ear retracted, the red indicator light will not
A) No. 19.		
B) No. 7.		
C) No. 17.		
73.	A05G	AMG
(Refer to Gene	eral figure 23.) If an open occurs a	at R1. the light
A) cannot be to		array and again
B) will not be a		
C) cannot be to		
,		
74.	A05G	AMG
(Refer to General an open occurs	,	gear is down, the green light will not come on if
A) No. 7.	••	
B) No. 6.		
C) No. 17.		
75.	B03G	AMG
Zone numbers	on aircraft blueprints are used to	
A) locate parts	s, sections, and views on large dra	awings.
B) indicate diff	erent sections of the aircraft.	
C) locate parts	in the aircraft.	
76.	B03G	AMG
When reading is true?	a blueprint, a dimension is given	as 4.387 inches +.003002. Which statement
A) The maxim	um acceptable size is 4.390 inche	es.
B) The minimu	ım acceptable size is 4.386 inche	S.
C) The minimu	ım acceptable size is 4.382 inches	S.
77.	B03G	AMG
	owable manufacturing tolerance for	or a bushing where the outside dimensions
shown on the l	_	

1.0625 + .0025	50003?	
A) .0028.		
B) 1.0650.		
C) 1.0647.		
78.	B03G	AMG
A hydraulic sy	stem schematic drawir	ng typically indicates the
, ·		components within the aircraft.
•	fluid flow through the	
C) amount of p	oressure in the pressur	re and return lines, and in system components.
79.	B03G	AMG
	eral figure 37.) The ver 5/64-inch hole is	tical distance between the top of the plate and the bottom
A) 2.250.		
B) 2.242.		
C) 2.367.		
80.	B03G	AMG
(Refer to Gene	eral figure 36.) The dia	meter of the holes in the finished object is
A) 3/4 inch.		
B) 31/64 inch.		
C) 1/2 inch.		
81.	B03G	AMG
(Refer to Gene		ne information, what size drill would be required to drill the
A) 5/16 inch.	i	
B) 21/64 inch.		
C) 1/2 inch.		
o, .,=o		
82.	B03G	AMG
(Refer to Gene	eral figure 34.) What is	the dimension of the chamfer?
A) 1/16 X 37°.		
B) 0.3125 +.00	95 -0.	
C) 0.0625 X 45	5°.	
83.	B03G	AMG
(Refer to Gene	eral figure 34.) What is	the maximum diameter of the hole for the clevis pin?

A) 0.3175.B) 0.3130.C) 0.31255.		
	B03G figure 34.) What would be the monstruction of the clevis that woul	AMG inimum diameter of 4130 round stock d produce a machined surface?
C) 7/8 inch.		
85.(Refer to GeneralA) 3.B) 1.C) 4.	B03G figure 35.) Identify the extension	AMG line.
A) functional loca B) physical location	B03G schematic diagrams is to show the tion of components within a system on of components within a system of components within a system.	em. n.
87.	B03G	AMG
stretches when th	e print is made.	aircraft print because the paper shrinks or
dimensioned.	drawing is made, it is carefully ar	nd accurately drawn to scale, and is
Regarding the ab A) only No. 2 is tr B) both No. 1 and C) neither No. 1 r	ue. I No. 2 are true.	
88. The drawings ofter A) exploded view B) block drawings C) detail drawings	S.	AMG Is are

89.	B03G	AMG
A drawing in which called	the subassemblies or parts are	shown as brought together on the aircraft is
A) an assembly dra	awing.	
B) an installation di	rawing.	
C) a detail drawing		
90.	B03G	AMG
In what type of electrical symbols?		nponents used instead of conventional
A) A pictorial diagra	am.	
B) A schematic dia	gram.	
C) A block diagram	l.	
91.	B03G	AMG
The measurements	s showing the ideal or 'perfect' siz	es of parts on drawings are called
A) dimensions.		
B) tolerances.		
C) allowances.		
92.	B04G	AMG
(Refer to General f temperature is 80 °		ension for a 1/8-inch cable (7 x 19) if the
A) 70 pounds.		
B) 75 pounds.		
C) 80 pounds.		
93.	B04G	AMG
(Refer to General f flex) if the temperar		ension for a 3/16-inch cable (7 x 19 extra
A) 135 pounds.		
B) 125 pounds.		
C) 140 pounds.		
94.	B04G	AMG
(Refer to General f cruise, 2,350 RPM	,	sumption with the engine operating at
A) 49.2 pounds per	hour.	
B) 51.2 pounds per	hour.	
C) 55.3 pounds per	r hour.	

95.	B04G	AMG	
(Refer to General figure 41.) Determine how much fuel would be required for a 30-minute reserve operating at 2,300 RPM.			
A) 25.3 pounds.			
B) 35.5 pounds.			
C) 49.8 pounds.			
96.	B04G	AMG	
	-	ng engine has a 1,830 cubic-inch er at 2,500 RPM. What is the brake mean	
A) 217.			
B) 205.			
C) 225.			
97.	B04G	AMG	
displacement, dev	figure 38.) An aircraft reciprocating velops 2,000 brake-horsepower, at the engine speed (RPM)?	ng engine has a 2,800 cubic-inch and indicates 270 brake-mean effective	
A) 2,200.			
B) 2,100.			
C) 2,300.			
98.	B04G	AMG	
(Refer to General figure 38.) An aircraft reciprocating engine has a 2,800 cubic-inch displacement and develops 2,000 brake-horsepower at 2,200 RPM. What is the brake mean effective pressure?			
A) 257.5.			
B) 242.5.			
C) 275.0.			
99.	B04G	AMG	
(Refer to General figure 39.) Determine the cable size of a 40-foot length of single cable in free air, with a continuous rating, running from a bus to the equipment in a 28-volt system with a 15-ampere load and a 1-volt drop.			
A) No. 10.			
B) No. 11.			
C) No. 18.			
100.	B04G	AMG	
(Refer to General figure 39.) Determine the maximum length of a No. 16 cable to be installed from a bus to the equipment in a 28-volt system with a 25-ampere intermittent load and a 1-volt			

B04G	AMG
	wire size of a single cable in a bundle rom the bus to the equipment in a 28-volt
D04C	AMC
	AMG
	n length of a No. 12 single cable that can zing 20 amperes continuous load in free
C02G	AMG
	f an aircraft, minimum weights, arms, and
maximum forward loaded CG of	f an aircraft, minimum weights, arms, and
naximum forward loaded CG of sed for items of useful load that CO2G ard weight and balance check t	f an aircraft, minimum weights, arms, and are located aft of the AMG o determine that the CG will not exceed s of useful load which should be
naximum forward loaded CG of sed for items of useful load that CO2G ard weight and balance check the extreme conditions, the item	f an aircraft, minimum weights, arms, and are located aft of the AMG o determine that the CG will not exceed s of useful load which should be
maximum forward loaded CG of sed for items of useful load that CO2G ard weight and balance check to a gextreme conditions, the item mum weights are those located CO2G	AMG AMG o determine that the CG will not exceed s of useful load which should be forward of the
naximum forward loaded CG of sed for items of useful load that C02G ard weight and balance check the extreme conditions, the item mum weights are those located	AMG o determine that the CG will not exceed s of useful load which should be forward of the
	re 39.) Determine the minimum current of 20 amperes 10 feet followed ble 1-volt drop. B04G re 39.) Determine the maximum revolt bus and a component utili

C) At specified flight hour or calendar time intervals.

106.	C02G	AMG		
An aircraft with an empty weight of 1,800 pounds and an empty weight CG of +31.5 was altered as follows:				
1. two 15-pound passer	nger seats located at +72 were	removed;		
2. structural modificatio	ns increasing the weight 14 po	unds were made at +76;		
3. a seat and safety be	It weighing 20 pounds were ins	talled at +73.5; and		
4. radio equipment weigh	ghing 30 pounds was installed a	at +30.		
What is the new empty	weight CG?			
A) +30.61.				
B) +31.61.				
C) +32.69.				
107.	C02G	AMG		
•	ty weight of 2,100 pounds and	an empty weight CG +32.5 was altered		
as follows:	ngar agata lagatad at 170 wara	romovod.		
•	nger seats located at +73 were			
	ns were made at +77 increasing			
•	It weighing 25 pounds were ins			
	ghing 35 pounds was installed a	at +95.		
What is the new empty	weight CG?			
A) +34.01.				
B) +33.68.				
C) +34.65.				
108.	C02G	AMG		
inches to +42.1 inches.		+30.5 inches. The CG range is +32.0 e ballast necessary to bring the CG		
A) 61.98 pounds.				
B) 30.58 pounds.				
C) 57.16 pounds.				
109.	C02G	AMG		
Two boxes which weigh 10 pounds and 5 pounds are placed in an airplane so that their distance aft from the CG are 4 feet and 2 feet respectively. How far forward of the CG should a third box, weighing 20 pounds, be placed so that the CG will not be changed?				
A) 3 feet.				
B) 2.5 feet.				
C) 8 feet.				
110.	C02G	AMG		

An aircraft had an empty weight of 2,886 pounds with a moment of 101,673.78 before several alterations were made. The alterations included:

- 1. removing two passenger seats (15 pounds each) at +71;
- 2. installing a cabinet (97 pounds) at +71;
- 3. installing a seat and safety belt (20 pounds) at +71; and
- 4. installing radio equipment (30 pounds) at +94.

The alterations caused the new empty weight CG to move

- A) 1.62 inches aft of the original empty weight CG.
- B) 2.03 inches forward of the original empty weight CG.
- C) 2.03 inches aft of the original empty weight CG.

111. C02G AMG

Datum is forward of the main gear center point:

30.24 inches

Actual distance between tail gear and main gear center points:

360.26 inches

Net weight at right main gear: 9,980 pounds

Net weight at left main gear: 9,770 pounds

Net weight at tail gear: 1,970 pounds

These items were in the aircraft when weighed:

- 1. Lavatory water tank full (34 pounds at +352).
- 2. Hydraulic fluid (22 pounds at -8).
- 3. Removable ballast (146 pounds at +380).

What is the empty weight CG of the aircraft described above?

- A) 62.92 inches.
- B) 60.31 inches.
- C) 58.54 inches.

112. C02G AMG

An aircraft with an empty weight of 1,500 pounds and an empty weight CG of +28.4 was altered as follows:

- 1. two 12-pound seats located at +68.5 were removed;
- structural modifications weighing +28 pounds were made at +73;
- 3. a seat and safety belt weighing 30 pounds were installed at +70.5; and
- 4. radio equipment weighing 25 pounds was installed at +85.

What is the new empty weight CG?

- A) +23.51.
- B) +31.35.
- C) +30.30.

113.	C02G	AMG		
The following alteration was performed on an aircraft: A model B engine weighing 175 pounds was replaced by a model D engine weighing 185 pounds at a -62.00 inch station. The aircraft weight and balance records show the previous empty weight to be 998 pounds and an empty weight CG of 13.48 inches. What is the new empty weight CG? A) 13.96 inches.				
B) 14.25 inches.				
C) 12.73 inches.				
,				
114.	C02G	AMG		
However, when the airc and 23 pounds of hydra of the aircraft? A) 150.700.				
B) 151.700.				
C) 151.365.				
115.	C02G	AMG		
	of an airplane lies within the en	inpty weight CG limits,		
A) it is necessary to cal				
,	o calculate CG extremes.			
C) minimum fuel should	d be used in both forward and r	earward CG checks.		
116.	C02G	AMG		
	d for computing empty weight a	and corresponding CG is		
A) empty fuel tanks.				
B) unusable fuel.				
C) the amount of fuel n	ecessary for 1/2 hour of operati	ion.		
117.	C02G	AMG		
	empty weight of an aircraft, cer t 23), the oil contained in the si	tificated under current airworthiness upply tank is considered		
A) a part of the empty v	weight.			
B) a part of the useful lo	oad.			
C) the same as the fluid	d contained in the water injection	on reservoir.		
118.	C02G	AMG		
Improper loading of a helicopter which results in exceeding either the fore or aft CG limits is hazardous due to the				
	effective cyclic pitch control.			

B) Coriolis effect being translated to the fuselage.

C) reduction	or loss of effective collective p	pitch control.
119.	C02G	AMG
The maximur found	m weight as used in weight an	d balance control of a given aircraft can normally be
A) by adding empty weigh		assengers, and maximum allowable baggage to the
B) in the Airc	raft Specification or Type Cer	ificate Data Sheet.
C) by adding	the empty weight and payloa	d.
120.	C02G	AMG
The useful lo	ad of an aircraft is the differer	ce between
A) the maxim	num takeoff weight and basic	empty weight.
B) maximum	ramp or takeoff weight as app	olicable, and zero fuel weight.
		s filled, full baggage/cargo, and full fuel, and (2) gage/cargo, and minimum operating fuel.
121.	C02G	AMG
An aircraft's l	LEMAC and TEMAC are defin	ed in terms of distance
A) from the d	latum.	
B) from each	other.	
C) ahead of a	and behind the wing center of	lift, respectively.
122.	C02G	AMG
A) distance fi	CG is found to be at 24 perce rom the TEMAC. rom the LEMAC.	nt of MAC, that 24 percent is an expression of the
C) average d	listance from the LEMAC to th	e wing center of lift.
123.	C02G	AMG
In a balance removed, use	•	n which an item located aft of the datum was
A) (-)weight >	K (+)arm (-)moment.	
B) (-)weight	X (-)arm (+)moment.	
C) (+)weight	X (-)arm (-)moment.	
124.	C02G	AMG
	plishing loading computations ght and balance records would	for a small aircraft, necessary information obtained linclude
A) unusable	fuel weight and distance from	datum.
B) weight and	d location of permanent ballas	t.

C) current empty v	weight and empty weigh	nt CG.
125.	D01G	AMG
	onded clamps to suppor	
•	rom tubing is not recom	_
<i>,</i> .	· ·	llation to prevent corrosion.
	r anodizing from tube a	·
o) rome to paint o	r anounding from tabo a	t damp todation
126.	D01G	AMG
(1) Bonded clamp	s are used for support v	when installing metal tubing.
(2) Unbonded clar	nps are used for suppo	rt when installing wiring.
Regarding the abo	ove statements,	
A) only No. 1 is tru	ıe.	
B) both No. 1 and	No. 2 are true.	
C) neither No. 1 ne	or No. 2 is true.	
127.	D01G	AMG
When flaring alum	inum tubing for use with	h AN fittings, the flare angle must be
A) 37°.		
B) 39°.		
C) 45°.		
128.	D01G	AMG
From the following single flare on a p		ndicate the proper order you would use to make a
1. Place the tube i	in the proper size hole i	n the flaring block.
Project the end dime.	of the tube slightly from	n the top of the flaring tool, about the thickness of a
3. Slip the fitting n	ut and sleeve on the tul	be.
	ger several light blows wurn after each blow.	vith a lightweight hammer or mallet and turn the
5. Tighten the clar	mp bar securely to prev	ent slippage.
6. Center the plun	ger or flaring pin over th	ne tube.
A) 1, 3, 5, 2, 4, 6.		
B) 3, 1, 6, 2, 5, 4.		
C) 3, 1, 2, 6, 5, 4.		
129.	D01G	AMG
	tage of a double flare or	
vviiai is all auvälli	aye or a double hare of	i aluminum tubing:

A) Ease of construction	n.			
B) More resistant to damage when the joint is tightened.				
C) Can be applied to	any size and wall-thickness of tu	bing.		
130.	D01G	AMG		
The primary purpose	of providing suitable bends in flu	iid and pneumatic metal tubing runs is to		
A) clear obstacles and	d make turns in aircraft structure	S.		
B) provide for access	within aircraft structures.			
C) prevent excessive	stress on the tubing.			
131.	D01G	AMG		
	statements is true regarding mi alloy and steel tubing of the sam	nimum allowable bend radii for 1.5 inches ne size?		
A) The minimum radio	us for steel is greater than for all	uminum.		
B) The minimum radio	us for steel is less than for alumin	num.		
C) The minimum radio	us is the same for both steel and	l aluminum.		
132.	D01G	AMG		
	Which coupling nut should be selected for use with 1/2-inch aluminum oil lines which are to be assembled using flared tube ends and standard AN nuts, sleeves, and fittings?			
A) AN-818-16.				
B) AN-818-8.				
C) AN-818-5.				
133.	D01G	AMG		
In most aircraft hydraulic systems, two piece tube connectors consisting of a sleeve and a nut are used when a tubing flare is required. The use of this type connector eliminates				
A) the flaring operatio	n prior to assembly.			
B) the possibility of re process.	ducing the flare thickness by wip	oing or ironing during the tightening		
C) wrench damage to	the tubing during the tightening	process.		
134.	D01G	AMG		
What is the color of a	n AN steel flared tube fitting?			
A) Black.				
B) Blue.				
C) Red.				
135.	D01G	AMG		
Which of the following	statements is/are correct in refe	erence to flare fittings?		
1. AN fittings have an	1. AN fittings have an identifying shoulder between the end of the threads and the flare cone.			

2. AC and AN fittings a colors.	re considered identical except for	or material composition and identifying
3. AN fittings are gener	ally interchangeable with AC fit	tings of compatible material composition
A) 1.		
B) 1 and 3.		
C) 1, 2, and 3.		
136.	D01G	AMG
	e characteristics (high strength, PSI) hydraulic system for opera	abrasion resistance) necessary for use in ation of landing gear and flaps?
A) 2024-T or 5052-0 alu	uminum alloy.	
B) Corrosion resistant s	steel annealed or 1/4H.	
C) 1100-1/2H or 3003-	1/2H aluminum alloy.	
137.	D01G	AMG
		with phosphate-ester base hydraulic
fluids?	nose materials are compatible v	viiii priospriate ester base riyaradile
1. Butyl.		
2. Teflon.		
3. Buna-N.		
4. Neoprene.		
A) 1 and 3.		
B) 1 and 2.		
C) 2 and 4.		
138.	D01G	AMG
	ircraft systems is classified in si	
	ilciait systems is dassilled in si	ze according to the
A) outside diameter.		
B) wall thickness.		
C) inside diameter.		
139.	D01G	AMG
Metal tubing fluid lines	are sized by wall thickness and	
A) outside diameter in	1/16 inch increments.	
B) inside diameter in 1/	16 inch increments.	
C) outside diameter in	1/32 inch increments.	
140.	D01G	AMG
The material specificati	ons for a certain aircraft require	that a replacement oil line be fabricated

from 3/4-inch 0.072 508 A) 0.606 inch. B) 0.688 inch. C) 0.750 inch.	52-0 aluminum alloy tubing. Wh	nat is the inside dimension of this tubing?		
141.	D01G	AMG		
	as been in service for a time, who taken when it is temporarily	nat condition may have occurred and/or removed from the aircraft?		
A) The hose interior mu embrittlement/deteriora	ust be kept wet with the fluid ca	rried to prevent		
B) The hose may beco	me stiff and brittle if not flexed	or moved regularly.		
C) The hose may have must be supported to n		manufactured with a pre-set shape, and		
142.	D01G	AMG		
A gas or fluid line mark	ed with the letters PHDAN is			
A) a dual-purpose pneu	umatic and/or hydraulic line for	normal and emergency system use.		
B) used to carry a haza	ardous substance.			
C) a pneumatic or hydr	aulic system drain or discharge	line.		
440	D04.C	AMC		
143.	D01G	AMG		
which of the following	Which of the following defects are NOT acceptable for metal lines?			
1. Cracked flare.				
2. Seams.				
3. Dents in the heel of	a bend less than 20 percent of	tube diameter.		
4. Scratches/nicks on t	he inside of a bend less than 1	O percent of wall thickness.		
5. Dents in straight sec	tions that are 20 percent of wa	I thickness.		
A) 1, 2, 3, 4, and 5.				
B) 1, 2, and 3.				
C) 1, 2, 3, and 5.				
144.	D01G	AMG		
In a metal tubing install		,		
A) rigid straight line run				
, ,	le because pressurization will o	cause it to expand and shift.		
	d in line if the nut will start on the			
145.	D01G	AMG		
A certain amount of sla	ck must be left in a flexible hos	e during installation because, when under		

pressure, it		
A) expands in	length and diameter.	
B) expands in	length and contracts in diam	eter.
	n length and expands in diam	
146.	D01G	AMG
Flexible lines	must be installed with	
A) enough sla	ack to allow maximum flexing	during operation.
B) a slack of a	at least 10 to 12 percent of the	e length.
C) a slack of	5 to 8 percent of the length.	
147.	D01G	AMG
Which statem	ent is true regarding the varie	ety of symbols utilized on the identifying color-code
bands that are	e currently used on aircraft pl	umbing lines?
A) Symbols a	re composed of various single	e colors according to line content.
B) Symbols a	re always black against a whi	ite background regardless of line content.
C) Symbols a	re composed of one to three	contrasting colors according to line content.
148.	D01G	AMG
If a flared tube weakened/da		d, where is the tube most likely to be
A) Along the	entire length of the sleeve and	tube interface.
B) At the edge	e of the sleeve and straight po	ortion of the tube.
C) At the slee	ve and flare junction.	
149.	D01G	AMG
The best tool	to use when cutting aluminun	n tubing, or any tubing of moderately soft metal is a
A) hand opera	ated wheel-type tubing cutter.	
B) fine-tooth h	nacksaw.	
C) circular-sa	w equipped with an abrasive	cutting wheel.
150.	D01G	AMG
	ent is true regarding flattening	
		of the original diameter is permissable.
,	•	of the original diameter is permissable.
,	diameter portion in the bend	cannot exceed more than 75 percent of the diameter
151.	D01G	AMG
no deeper tha		of aluminum alloy tubing may be repaired if they are

A) 20 per	cent of the wall thickness.	
B) 1/32 in	ich or 20 percent of wall thickness	s, whichever is less.
C) 10 per	cent of the wall thickness.	
152.	D01G	AMG
	tubing, which is damaged in a logy, may be repaired	calized area to such an extent that repair is
A) by cutt	ing out the damaged area and uti	ilizing a swaged tube fitting to join the tube ends.
	replacing the that tubing section rial as the original.	run (connection to connection) using the same size
C) by cutt	ting out the damaged section and	soldering in a replacement section of tubing.
153.	D01G	AMG
The term	"cold flow" is generally associate	d with
A) the effe	ects of low temperature gasses o	r liquids flowing in hose or tubing.
B) impres	sions left in natural or synthetic r	ubber hose material.
C) flexibil	ity characteristics of various hose	materials at low ambient temperatures.
154.	E04G	AMG
Generally	speaking, bolt grip lengths shoul	d be
A) one an	nd one half times the thickness of	the material which is fastened together.
B) equal t diameter.		nich is fastened together, plus approximately one
C) equal	to the thickness of the material wl	nich is fastened together.
155.	E04G	AMG
When the be found?	•	not given, where can the recommended torque value
A) AC 43	.13-2A.	
B) Techni	ical Standard Order.	
C) AC 43	.13-1B.	
156.	E04G	AMG
castle ten	•	aircraft structure by the use of an aircraft bolt and a r pin hole does not align within the recommended
A) exceed	d the recommended torque range	by no more than 10 percent.
B) tighten	below the torque range.	
C) change	e washers and try again.	
157.	E04G	AMG

A bolt with a s	single raised dash on the hea	d is classified as an	
A) AN corrosid	on resistant steel bolt.		
B) NAS standa	ard aircraft bolt.		
C) NAS close	tolerance bolt.		
158.	E04G	AMG	
Which statem	ent regarding aircraft bolts is	correct?	
permissible to		ed bolts, if the cotter pin holes do not line up, it ent over recommended torque to permit alignment	
B) In general,	bolt grip lengths should equa	al the material thickness.	
C) Alloy steel	bolts smaller than 1/4-inch d	ameter should not be used in primary structure.	
159.	E04G	AMG	
Where is an A	N clevis bolt used in an airpl	ane?	
A) For tension	and shear load conditions.		
B) Where exte	ernal tension loads are applie	d.	
C) Only for sh	ear load applications.		
160.	E04G	AMG	
The core mate	erial of Alclad 2024-T4 is		
A) heat treate	d aluminum alloy, and the su	rface material is commercially pure aluminum.	
B) commercia	lly pure aluminum, and the s	urface material is heat treated aluminum alloy.	
C) strain hard	ened aluminum alloy, and the	e surface material is commercially pure aluminu	m.
161.	E04G	AMG	
The aluminum	code number 1100 identifies	s what type of aluminum?	
A) Aluminum a	alloy containing 11 percent co	opper.	
B) Aluminum	alloy containing zinc.		
C) 99 percent	commercially pure aluminum	l.	
162.	E04G	AMG	
In the four-dig	it aluminum index system nu	mber 2024, the first digit indicates	
•	t of alloying metal added.	-	
	r of major alloying elements	used in the metal.	
C) the major a	alloying element.		
163.	E04G	AMG	
How is the loc	king feature of the fiber type	locknut obtained?	
	of an unthreaded fiber locking		
· •		-	

, ,	I firmly in place at the base of the dase of the distribution of the fiber insert slightly sm	ne load carrying section. aller than those in the load carrying
164.	E04G	AMG
	ed with a fork end cable terminantened to a snug fit, but with no	al secured? strain imposed on the fork and safetied
B) With a castle nut tight which it is being attached		s between the fork and the fitting to
C) With a shear nut and of the bolt in the fork.	d cotter pin or a thin self locking	nut tightened enough to prevent rotation
165.	E04G	AMG
Aircraft bolts are usuall	y manufactured with a	
A) class 1 fit for the three	•	
B) class 2 fit for the three	eads.	
C) class 3 fit for the three	eads.	
166.	E04G	AMG
Aircraft bolts with a cros	ss or asterisk marked on the bo	olthead are
A) made of aluminum a	illoy.	
B) close tolerance bolts	3.	
C) standard steel bolts.		
167.	E04G	AMG
Unless otherwise speci	fied, torque values for tightenin	g aircraft nuts and bolts relate to
A) clean, dry threads.		
B) clean, lightly oiled th	reads.	
C) both dry and lightly of	oiled threads.	
168.	E04G	AMG
Unless otherwise speci-	fied or required, aircraft bolts sl	nould be installed so that the bolthead is
A) upward, or in a forward	ard direction.	
B) downward, or in a fo	rward direction.	
C) downward, or in a re	earward direction.	
169.	E04G	AMG
(Refer to General figure corrosion resistant stee A) 1.	*	de markings shown identifies an AN

B) 2.		
C) 3.		
170.	E04G	AMG
numerical index system designating chromium in	n to identify the composition of we molybdenum steel, the first digi	merican Iron and Steel Institute use a various steels. In the number '4130' t indicates the
, ,	asic element in the alloy.	
B) percentage of carboC) basic alloying eleme	n in the alloy in hundredths of a nt.	a percent.
171.	E04G	AMG
What is generally used A) Stainless steel. B) Chrome molybdenur C) titanium nickel alloy.	•	ngine firewalls?
172.	E04G	AMG
• •	g nut must never be used on ar	i alliciant ii the bolt is
A) under shear loading.		
B) under tension loadin	g.	
C) subject to rotation.		
173.	E05G	AMG
-		
	es a part has cooled too quickly	y after being weided?
A) Cracking adjacent to		
B) Discoloration of the		
C) Gas pockets, porosi	ty, and slag inclusions.	
174.	E05G	AMG
On a fillet weld, the per		what percentage(s) of the base metal
thickness? A) 100 percent.		
B) 25 to 50 percent.		
C) 60 to 80 percent.		
C) do to do percent.		
175.	E05G	AMG
(Refer to General figure	e 45.) What type weld is shown	at G?
A) Lap.	, , ,	
B) Butt.		
,		

C) Joint.		
176.	E05G	AMG
A) Reweld the B) Remove al	e defective portions. I the old weld, and reweld the	und in a weld. What action should be taken? e joint. et, and reweld all gaps/holes.
177.	E05G	AMG
(Refer to Gen A) Butt. B) Double but C) Fillet.	eral figure 45.) What type we	eld is shown at B?
178.	E05G	AMG
(Refer to Gen A) Fillet. B) Butt. C) Lap.	eral figure 45.) What type we	eld is shown at A?
179.	E05G	AMG
A) The depth B) The height	·	ent to ensure fusion of the filler rod. 1/8 inch above the base metal.
180.	E05G	AMG
	ristic of a good weld is that n the weld of more than	o oxide should be formed on the base metal at a
181.	E05G	AMG
Why is it cons	sidered good practice to norn	nalize a part after welding?
•	internal stresses developed	within the base metal.
•	e the hardness of the weld.	ring wolding
C) TO Terriove	the surface scale formed du	ing weiding.
182.	E05G	AMG

(Refer to General figure A) 3. B) 2. C) 4.	e 44.) Select the illustration which	ch depicts a cold weld.
183. (Refer to General figure A) 4. B) 1. C) 3.	E05G e 44.) Identify the weld caused I	AMG by an excessive amount of acetylene.
A) likely ambient exposoriginal part material combined by the welding technique.	ure conditions and intended use	AMG a mechanic should be familiar with e of the part, along with type of weld and ure range used.
B) Tools used on certifi	E06G ement. ter is limited to measuring diam cated aircraft must be an appro- ide a reading when used as a n	oved type.
186. (Refer to General figure A) 0.2851. B) 0.2911. C) 0.2901.	E06G e 46.) The measurement readin	AMG g on the illustrated micrometer is
187.Which tool can be used disk?A) Dial indicator.B) Shaft gauge.C) Protractor.	E06G If to measure the alignment of a	AMG rotor shaft or the plane of rotation of a
188. (Refer to General figure A) 1.411 inches.	E06G e 47.) What is the measurement	AMG treading on the vernier caliper scale?

C) 1.700 inches.		
189.The side clearances ofA) micrometer caliper gB) thickness gauge.C) dial gauge.	E06G piston rings are measured with gauge.	AMG n a
190.	E06G	AMG
Which tool is used to m surface being checked A) Depth gauge. B) Thickness gauge. C) Dial indicator.		a surface plate and a relatively narrow
191.	E06G	AMG
Which number represent A) .00001. B) .001. C) .0001.	nts the vernier scale graduation	n of a micrometer?
192.	E06G	AMG
Which tool is used to find A) Combination set. B) Dial indicator. C) Micrometer caliper.	nd the center of a shaft or othe	r cylindrical work?
193.	E06G	AMG
(Refer to General figure A) .2974. B) .3004. C) .3108.	e 48.) What does the micromet	er read?
194.	E06G	AMG
If it is necessary to acc diameter, the mechanic		of a hole approximately 1/4 inch in
•	nd determine the size of the ho	ole by taking a micrometer reading of the
•		ement directly from the micrometer

B) 1.436 inches.

C) small hole gauge an ball end of the gauge.	d determine the size of the hole	e by taking a micrometer reading of the
195.	E06G	AMG
(Refer to General figure	e 49.) The measurement readin	g on the micrometer is
A) .2758.		
B) .2702.		
C) .2792.		
196.	E06G	AMG
What tool is generally u	used to set a divider to an exac	t dimension?
A) Machinist scale.		
B) Surface gauge.		
C) Dial indicator.		
197.	E06G	AMG
What precision measur of round wear?	ing tool is used for measuring o	crankpin and main bearing journals for out
A) Dial gauge.		
B) Micrometer caliper.		
C) Depth gauge.		
198.	E06G	AMG
The clearance between	the piston rings and the ring la	ands is measured with a
A) micrometer caliper.		
B) thickness gauge.		
C) depth gauge.		
199.	E06G	AMG
How can the dimension	nal inspection of a bearing in a	rocker arm be accomplished?
A) Depth gauge and m	icrometer.	
B) Thickness gauge an	d push fit arbor.	
C) Telescopic gauge a	nd micrometer.	
200.	E06G	AMG
		oush fit arbors in both ends, supported by are taken between the arbor and the
A) dial gauge.		
B) height gauge.		

What may be used to check the stem on a poppet-type valve for stretch? A) Dial indicator. B) Micrometer. C) Telescoping gauge. 202. E06G AMG What tool is generally used to calibrate a micrometer or check its accuracy? A) Gauge block. B) Dial indicator. C) Machinist scale. 203. G02G AMG Which of these materials is the most cathodic? A) Zinc. B) 2024 aluminum alloy. C) Stainless steel. 204. G02G AMG Corrosion should be removed from magnesium parts with a A) silicon carbide brush. B) carborundum abrasive. C) stiff, nonmetallic brush. 205. G02G AMG Which of the following is an acceptable first step procedure to help prevent scratching when cleaning a transparent plastic surface? A) Gently wipe the surface with a clean, dry, soft cloth. B) Flush the surface with clean water. C) Gently wipe the surface with a clean, soft cloth moistened with de-mineralized or distilled water. 206. G02G AMG What should be done to prevent rapid deterioration when oil or grease come in contact with titre?	201.	E06G	AMG
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207.	G02G	AMG		
Of the following,	when and/or where is	s galvanic corrosion is most likely to occur?		
•	trolyte (water) covers	the surface of an aluminum skin, seeps into the cracks uded from the area.		
B) At the interfact electrolyte.	e of a steel fastener	and aluminum alloy inspection plate in the presence of an		
	unprotected metal ex or industrial contamin	posed to an atmosphere containing battery fumes, ants.		
208.	G02G	AMG		
Corrosion caused	d by galvanic action is	s the result of		
A) excessive and	odization.			
B) contact between	en two unlike metals			
C) excessive etcl	hing.			
209.	G02G	AMG		
	naterials is the most a	anodic?		
A) Cadmium.				
B) 7075-T6 alum	inum alloy.			
C) Magnesium.				
210.	G02G	AMG		
A primary cause	of intergranular corro	sion is		
A) improper heat	treatment.			
B) dissimilar met	al contact.			
C) improper appl	ication of primer.			
211.	G02G	AMG		
One way of obtain	ining increased resist	ance to stress corrosion cracking is by		
-	_	heat treatment) on the metal surface.		
B) creating compressive stresses (via shot peening) on the metal surface.				
C) producing nonuniform deformation while cold working during the manufacturing process.				
212.	G02G	AMG		
(1) In the corrosi	on process, it is the o	athodic area or dissimilar cathodic material that corrodes.		
(2) In the Galvanic or Electro-Chemical Series for metals, the most anodic metals are those that will give up electrons most easily.				

Regarding the	e above statements,	
A) only No. 1	is true.	
B) only No. 2	is true.	
C) both No. 1	and No. 2 are true.	
213.	G02G	AMG
Spilled mercu	ry on aluminum	
A) greatly inci	reases susceptibility to hydro	gen embrittlement.
B) may cause	impaired corrosion resistand	ce if left in prolonged contact.
C) causes rap	oid and severe corrosion that	is very difficult to control.
214.	G02G	AMG
The interior so		eel tubing would be best protected against corros
A) A coating of	of linseed oil.	
B) Evacuating	moisture from the tubing be	fore sealing.
C) Charging the	he tubing with dry nitrogen pr	rior to sealing.
215.	G02G	AMG
What may be	used to remove corrosion fro	om highly stressed steel surfaces?
A) Steel wire	brushes.	
B) Fine grit al	uminum oxide.	
C) Medium gr	it carborundum paper.	
216.	G02G	AMG
The rust or co	orrosion that occurs with mos	t metals is the result of
A) a tendency	for them to return to their na	atural state.
B) blocking th	e flow of electrons in homog	enous metals, or between dissimilar metals.
C) electron flo	ow in or between metals from	cathodic to anodic areas.
217.	G02G	AMG
Fretting corro	sion is most likely to occur	
A) when two s	surfaces fit tightly together bu	ut can move relative to one another.
B) only when	two dissimilar metals are in o	contact.
C) when two	surfaces fit loosely together a	and can move relative to one another.
218.	G02G	AMG
Which of the	following are the desired effe	ects of using Alodine on aluminum alloy?
1. A slightly ro	ough surface	
59, 10		

2. Relieved su	urface stresses.	
3. A smooth p	ainting surface.	
4. Increased of	corrosion resistance.	
A) 3 and 4.		
B) 1, 2, and 4.		
C) 1 and 4.		
219.	G02G	AMG
		e of the requirements for corrosion to occur?
	nce of an electrolyte.	area and a cathodic area
•	contact between an anodic	
C) The preser	nce of a passive oxide film.	
220.	G02G	AMG
	laking of the metal at the some of corrosion residual pro	urface due to delamination of grain boundaries cause
A) brinelling.	re or corrosion residual pro	duct buildup is called
B) granulation		
C) exfoliation.		
O) CATORIATION.		
221.	G02G	AMG
Which of the f	following are acceptable to	use in cleaning anodized surfaces?
1. Steel wool.		
2. Brass wire	hruch	
3. Aluminum v		
	wooi. teel wire brush.	
5. Fiber bristle		
A) 1, 3, and 5.	•	
B) 2 and 4.		
C) 3 and 5.		
222.	G02G	AMG
	following may not be detect by parts or structures?	able even by careful visual inspection of the surface
A) Filiform cor	•	
B) Intergranul		
C) Uniform et		
,		
223.	G02G	AMG

ı	For which of the followi	ng reasons would a water brea	k test be conducted?
,	A) To make certain that	t a newly alodized aluminum su	rface is sufficiently coated.
ı	B) To make certain that	t a bare metal surface is thorou	ghly clean.
	C) To make certain tha bonding connection car		n sufficiently removed before an electrical
2	224.	H02G	AMG
		uel tank measures 27-1/2 inche nany gallons will the tank contai	es in length, 3/4 foot in width, and 8-1/4 n?
((231 cu. in. = 1 gal.)		
,	A) 7.366		
ı	B) 8.83		
(C) 170.156		
2	225.	H02G	AMG
;	Select the container siz	e that will be equal in volume to	o 72 gallons of fuel.
((7.5 gal = 1 cu ft)		
,	A) 540 cubic feet.		
I	B) 9.60 cubic feet.		
(C) 6 cubic feet.		
:	226.	H02G	AMG
((Refer to General figure	e 56.) Compute the area of the	trapezoid.
,	A) 24 square feet.		
ı	B) 48 square feet.		
(C) 10 square feet.		
2	227.	H02G	AMG
((Refer to General figure	e 57.) Determine the area of the	triangle formed by points A, B, and C.
,	A to $B = 7.5$ inches		
,	A to $D = 16.8$ inches		
,	A) 24.3 square inches.		
ı	B) 63 square inches.		
(C) 126 square inches.		
:	228.	H02G	AMG
	What is the piston displ stroke of 4 inches?	acement of a master cylinder w	vith a 1.5-inch diameter bore and a piston
,	A) 9.4247 cubic inches.		
ı	B) 7.0686 cubic inches		

C) 6.1541 cubic	inches.	
229.	H02G	AMG
	n length, and 1 foot 8 in	ned in a rectangular shaped tank which measures 2 feet sches in depth?
230.	H02G	AMG
the piston on bo	ottom center, the top of the street of the s	inder bore of 3.78 inches and is 8.5 inches deep. With the piston measures 4.0 inches from the bottom of the n displacement of this engine?
231.	H02G	AMG
	naped fuel fank measure How many cubic inche	es 37-1/2 inches in length, 14 inches in width, and 8-1/4 s are within the tank?
232.	H02G	AMG
	fluid pressure is 850 PS	hydraulic cylinder if the area of the piston is 1.2 square I?
233.	H02G	AMG
(Refer to General A) 12 square included B) 6 square included C) 15 square included B	ches.	rea of the triangle shown.
234.	H02G	AMG
	displacement of a spec	

B) the volume displaced by all the pistons during one revolution of the crankshaft. C) the total volume of all the cylinders.			
235.	H02G	AMG	
(Refer to General figu	re 54.) Compute the area of the	trapezoid.	
A) 52.5 square feet.			
B) 60 square feet.			
C) 76.5 square feet.			
236.	H02G	AMG	
What size sheet of me diameter?	etal is required to fabricate a cyl	inder 20 inches long and 8 inches in	
(Note: C = pi x D)			
A) 20 inches x 25-5/32	2 inches.		
B) 20 inches x 24-9/64	4 inches.		
C) 20 inches x 25-9/64	4 inches.		
237.	H02G	AMG	
A six cylinder engine with a bore of 3.5 inches, a cylinder height of 7 inches and a stroke of 4.5 inches will have a total piston displacement of			
A) 256.88 cubic inche	S.		
B) 259.77 cubic inche	S.		
C) 43.3 cubic inches.			
238.	H02G	AMG	
(Refer to the figure.) V	What is the volume of a sphere	with a radius of 4.5 inches?	
A) 47.71 cubic inches			
B) 381.7 square inche			
C) 381.7 cubic inches			
239.	H02G	AMG	
What is the surface ar	rea of a cube where a side (edg	e) measures 7.25 inches?	
A) 381.078 cu. in.			
B) 315.375 sq. in.			
C) 52.5625 sq. in.			
240.	H01G	AMG	
Find the square root o	of 124.9924.		
A) 111.8 x 10 to the third power.			

B) .1118 x 10 to the C) 1,118 x 10 to the	e negative second ne negative second	
241. The number 3.47 x A) .00347 B) 34,700 C) .000347	H01G x 10 to the negative	AMG fourth power is equal to
242.Which of the figureA) 1.B) 2.C) both 1 and 2.	H01G es is using scientific	AMG notation?
243.Which of the followA) 128.B) 256.C) 16.	H01G ving is equal to the	AMG square root of (-1776) ÷ (-2) – 632?
244. (Refer to the figure A) 35,998. B) 36,002. C) 62,208.	H01G e) Solve the equation	AMG n.
245. Find the square roo A) 61.00971. B) 61.00. C) 61.0097.	H01G ot of 3,722.1835.	AMG
246. 7056.0452 x 1/72 i A) 9,406. B) 9,604. C) 9,801.	H01G is most nearly equa	AMG I to the square root of which of the following numbers?

247.	H01G	AMG
Find the cube of 64.		
A) 4.		
B) 192.		
C) 262,144.		
•		
248.	H01G	AMG
(Refer to the figure) So	lve the equation.	
A) 5.59		
B) .1680		
C) .0419		
249.	H01G	AMG
What is the square roo	t of 4 raised to the fifth power?	
A) 32.		
B) 64.		
C) 20.		
250.	H01G	AMG
Which alternative answ	ver in the figure is equal to 463,7	100?
A) 1.		
B) 2.		
C) 3.		
251.	H01G	AMG
What is the square roo	t of 16 raised to the fourth power	er?
A) 1,024.		
B) 4,096.		
C) 256.		
252.	H01G	AMG
The result of 7 raised t	o the third power plus the squar	e root of 36 is equal to
A) 343.		
B) 349.		
C) 361.		
253.	H01G	AMG
Find the square root of		
A) 42.708 x 10 to the r	negative second power.	

C) .42708 x 10 to the	C) .42708 x 10 to the second power.			
254. Find the value of 10 ra A) 0.000001 B) 0.000010 C) 0.0000001	H01G aised to the negative sixth power	AMG		
255. What power of 10 is e A) 10 to the sixth power B) 10 to the tenth power C) 10 to the ninth power	er.	AMG		
256. (Refer to the figure) So A) 12. B) 60. C) 76.	H01G plve the equation.	AMG		
257. H01G AMG Which of the following is equal to the square root of 3844? A) $31(2) + 7 + (-3.5 \times 2) =$ B) $480(4) + (-4) - (-3 \times 2) =$ C) $960 \times 4 - (-2) + 2 =$				
A) 1. B) 2.	H01G Which alternative answer is equa	AMG al to 5.59?		
C) 3.				

B) .42708 x 10.

260.	H04G	AMG
(Refer to General figur	e 60.) Solve the equation.	
A) 11.9		
B) 11.7		
C) 11.09		
5, 11100		
261.	H04G	AMG
Solve the equation.		
Solve the equation.		
(2 : 2)/ (2 - 4) : / 4	. (1) 2	
(-3 + 2)(-12 - 4) + (-4 -	+ 6) X 3 =	
A) 20.		
B) 22.		
C) 28.		
000	11040	4440
262.	H04G	AMG
Solve the equation.		
-6[-9(-8+4) - 2(7 + 2)] =	=	
A) -332.		
B) -96.		
C) -108.		
263.	H04G	AMG
Solve the equation.		
4 - 3[-6(2+3) + 4] =		
A) 82.		
B) -25.		
C) -71.		
O) 71.		
264.	H04G	AMG
(Refer to General figur	e 59.) Solve the equation.	
A) +31.25	o co., corvo ino equation.	
B) -5.20		
C) -31.25		
265.	H04G	AMG
	110-70	AWO
Solve the equation.		

1/2 (-30 + 34) 5 = A) 10. B) 95. C) 160.		
266. Solve the equation.	H04G	AMG
1/6 ÷ (32 x 3/8) = A) 1.992 B) 0.01945 C) 0.0138		
267. Solve the equation.	H04G	AMG
(64 x 3/8) ÷ 3/4 = A) 18. B) 24. C) 32.		
268. Solve the equation	H04G	AMG
[(4 x -3) + (-9 x 2)] ÷ 3 A) -15. B) -10. C) -18.	3 =	
269. (Refer to General figure) A) 174.85 B) 68.037 C) 14.002	H04G ure 58.) Solve the equation.	AMG
270. Solve the equation. 4 - (-2) + 12 ÷ 2 x 3 = A) 24	H04G =	AMG

B) 36		
C) 27		
271.	H03G	AMG
•	•	enter is 84 cubic inches and the piston
	ubic inches, then the compression	on ratio is
A) 7:1		
B) 1.2:1		
C) 6:1		
272.	H03G	AMG
		AIVIG
Express 7/8 as a per	rcent.	
A) 8.75 percent.		
B) .875 percent.		
C) 87.5 percent.		
273.	H03G	AMG
What is the speed of RPM?	a spur gear with 42 teeth driven	by a pinion gear with 14 teeth turning 420
A) 196 RPM.		
B) 160 RPM.		
C) 140 RPM.		
274.	H03G	AMG
		ches, with a shank length of 1-3/16 inches,
	on length of 5/8 inch. What is the	grip lengtn?
A) .5625 inch.		
B) .8750 inch.		
C) .3125 inch.		
275.	H03G	AMG
	equivalent of 0.078125	, e
A) 3/32	equivalent of 0.070125	
B) 1/16		
•		
C) 5/64		
276.	H03G	AMG
		ower. What horsepower would be
developed at 65 per		
A) 81.		
B) 70.		

C) 61.		
277. 1.296875 is equal to A) 83/64 B) 19/16 C) 39/32	H03G	AMG
278. Select the decimal which A) 1.0231 B) 1.83117 C) 1.2031	H03G th is most nearly equal to 77/64	AMG
279. Express 5/8 as a perce A) .625 percent. B) 6.25 percent. C) 62.5 percent.	H03G nt.	AMG
280. The parts department's selling price is \$145.60° A) \$128.13 B) \$125.60 C) \$130.00		AMG art. How much does the part cost if the
281. A pinion gear with 14 to speed of the pinion gear A) 588 RPM. B) 420 RPM. C) 126 RPM.	H03G eeth is driving a spur gear with 4 r.	AMG 42 teeth at 140 RPM. Determine the
the bus?		AMG or that is 85-percent efficient draw from
(Note: 1 horsepower = A) 14.6 amperes.	746 watts)	

B) 12.4 amperes. C) 14.3 amperes.		
283.	H03G	AMG
If an engine is turning	1,965 rpm at 65 percent power,	what is its maximum rpm?
A) 2,653.		
B) 3,023.		
C) 3,242.		
284.	H03G	AMG
An engine of 98 horsep being developed?	power maximum is running at 7	5 percent power. What is the horsepower
A) 81.00		
B) 76.50		
C) 73.50		
285.	H03G	AMG
Select the fraction which	ch is most nearly equal to 0.203	12.
A) 11/64.		
B) 13/64.		
C) 7/32.		
286.	H03G	AMG
The radius of a piece of the diameter.	of round stock is 7/32. Select the	e decimal which is most nearly equal to
A) 0.2187		
B) 0.4375		
C) 0.3531		
287.	H03G	AMG
		y, 15 of these parts were removed from /hat percent of the maximum part life has
A) 75.9 percent.		
B) 76.9 percent.		
C) 75.0 percent.		
288.	H03G	AMG
What is the ratio of 10	feet to 30 inches?	
A) 4:1		
B) 1:3		

	H03G	AMG
Which decima	al is most nearly equal to a	pend radius of 29/64?
A) 0.4613		
B) 0.4844		
C) 0.4531		
290.	102G	AMG
	anic holding an airframe and required before the aircraft	d powerplant rating completes a 100-hour inspect is returned to service?
A) Make the p	proper entries in the aircraft	s maintenance record.
B) An operation	onal check of all systems.	
C) A mechani	c with an inspection authori	zation must approve the inspection.
201	1000	AMC
291.	102G	AMG
What is/are th aircraft?	e appropriate action(s) con	cerning minor repairs performed on a certificated
1 FAA Form 1	337's must be completed.	
	st be made in the aircraft's i	maintonanco rocord
		a record of all minor repairs to the FAA at least
annually.		
A) 1 and 2.		
,		
B) 2.		
•		
B) 2.	102G	AMG
B) 2. C) 2 and 3. 292. After making a	a certain repair to an aircraf	AMG t engine that is to be returned to service, an FAA equired and what is the disposition of the complet
B) 2. C) 2 and 3. 292. After making a 337 is prepare forms?	a certain repair to an aircraf	t engine that is to be returned to service, an FAA equired and what is the disposition of the complet
B) 2. C) 2 and 3. 292. After making a 337 is prepare forms? A) Two; one contact the contac	a certain repair to an aircrafed. How many copies are recopy for the aircraft owner a	t engine that is to be returned to service, an FAA equired and what is the disposition of the complet
B) 2. C) 2 and 3. 292. After making a 337 is prepare forms? A) Two; one cor individual. C) Three; one	a certain repair to an aircrafed. How many copies are recopy for the aircraft owner a copy for the FAA and one co	t engine that is to be returned to service, an FAA equired and what is the disposition of the complet and one copy for the FAA. Topy for the permanent records of the repairing agone copy for the FAA, and one copy for the
B) 2. C) 2 and 3. 292. After making a 337 is prepare forms? A) Two; one cor individual. C) Three; one	a certain repair to an aircraft ed. How many copies are recopy for the aircraft owner a copy for the FAA and one contact to the copy for the aircraft owner and copy for the aircraft owner.	t engine that is to be returned to service, an FAA equired and what is the disposition of the complet and one copy for the FAA. Topy for the permanent records of the repairing agone copy for the FAA, and one copy for the
B) 2. C) 2 and 3. 292. After making a 337 is prepare forms? A) Two; one cor individual. C) Three; one permanent records.	a certain repair to an aircraft ed. How many copies are recopy for the aircraft owner at copy for the FAA and one control of the aircraft owner cords of the repairing agence 102G	t engine that is to be returned to service, an FAA equired and what is the disposition of the complet and one copy for the FAA. Topy for the permanent records of the repairing agone copy for the FAA, and one copy for the cy or individual.
B) 2. C) 2 and 3. 292. After making a 337 is prepare forms? A) Two; one coor individual. C) Three; one permanent received.	a certain repair to an aircraft ed. How many copies are recopy for the aircraft owner at copy for the FAA and one control of the aircraft owner cords of the repairing agence 102G	t engine that is to be returned to service, an FAA equired and what is the disposition of the complet and one copy for the FAA. Topy for the permanent records of the repairing agone copy for the FAA, and one copy for the cy or individual. AMG uired maintenance records for an aircraft?

C) 3:1

294.	102G	AMG
		service after an annual inspection and the owner tenance base. Which statement is correct?
A) The owner i	must obtain a special flight	permit.
B) The aircraft base.	may be flown without rest	riction up to 10 hours to reach another maintenance
C) The aircraft	becomes a restricted cate	gory type until it is approved for return to service.
295.	102G	AMG
An FAA Form	337 is used to record and	document
A) preventive a	and unscheduled maintena	ance, and special inspections.
	ninor repairs, and major ar	·
,	rs and major alterations.	
	•	
296.	102G	AMG
	ollowing may a certificated or return to service?	airframe and powerplant mechanic perform on aircra
1. a 100-hour i	nspection.	
2. an annual in	spection, under specified	circumstances.
3. a progressiv	e inspection, under specif	ied circumstances.
A) 1, 3.		
A) 1, 3. B) 1, 2.		
,		
B) 1, 2. C) 1, 2, 3.	102G	
B) 1, 2. C) 1, 2, 3.	I02G	AMG
B) 1, 2. C) 1, 2, 3. 297. When approvir		AMG er maintenance or alteration, the approving person
B) 1, 2. C) 1, 2, 3. 297. When approvir must enter in the date the data) of work p	ng for return to service afte the maintenance record of maintenance or alteration	AMG or maintenance or alteration, the approving person the aircraft
B) 1, 2. C) 1, 2, 3. 297. When approvir must enter in the date the data) of work programmers and B) a description	ng for return to service after the maintenance record of a maintenance or alteration performed, the name of the certificate number. In (or reference to acceptal)	AMG or maintenance or alteration, the approving person the aircraft or was begun, a description (or reference to acceptable person performing the work (if someone else), to be data) of work performed, date of completion, the
B) 1, 2. C) 1, 2, 3. 297. When approvir must enter in the data of work prograture, and B) a description name of the period.	ng for return to service after the maintenance record of a maintenance or alteration performed, the name of the certificate number. In (or reference to acceptate the cortificate of the certificate of th	AMG or maintenance or alteration, the approving person the aircraft or was begun, a description (or reference to acceptable person performing the work (if someone else), to ble data) of work performed, date of completion, the (if someone else), signature, and certificate number. to ble data) of work performed, date of completion, the
C) 1, 2, 3. 297. When approvir must enter in the data of work parts in the data of work parts in a description name of the percentage of	ng for return to service after the maintenance record of a maintenance or alteration performed, the name of the certificate number. In (or reference to acceptate the cortificate of the certificate of th	AMG or maintenance or alteration, the approving person the aircraft or was begun, a description (or reference to acceptable person performing the work (if someone else), to ble data) of work performed, date of completion, the (if someone else), signature, and certificate number.

299.	102G	AMG
return to service	•	screpancies on an aircraft that was not approved fon. Which of the following statements is/are true ncies?
1. Only a mech	nanic with an inspection aut	horization.
2. An appropria	ately rated mechanic.	
3. Any certifica	ted repair station.	
A) 1.		
B) 2 .		
C) 2 & 3.		
300.	102G	AMG
Who is responsor progressive		the maintenance records after an annual, 100-hor
A) The owner of	or operator of the aircraft.	
B) The person	approving or disapproving	for return to service.
C) The designe	ee or inspector representing	the FAA Administrator.
301.	102G	AMG
	erated under part 91, which ntil the work is repeated or s	of the following records must be retained for at leasuperseded?
A) Records of	time since overhaul of items	s requiring overhaul on a time specified basis.
B) Records of progressive ins		reventive maintenance, 100-hour, annual, and
C) Records of inspection.	the current inspection statu	s of the aircraft, including time since last required
302.	102G	AMG
	erated under part 91, which h the aircraft when it is sold	of the following records must be retained and ?
A) Records of progressive ins		reventive maintenance, 100-hour, annual, and
B) Records of	inspections performed in ac	ccordance with 14 CFR part 43, Appendix D.
•	•	able AD's, and date and time when recurring AD's
303.	102G	AMG

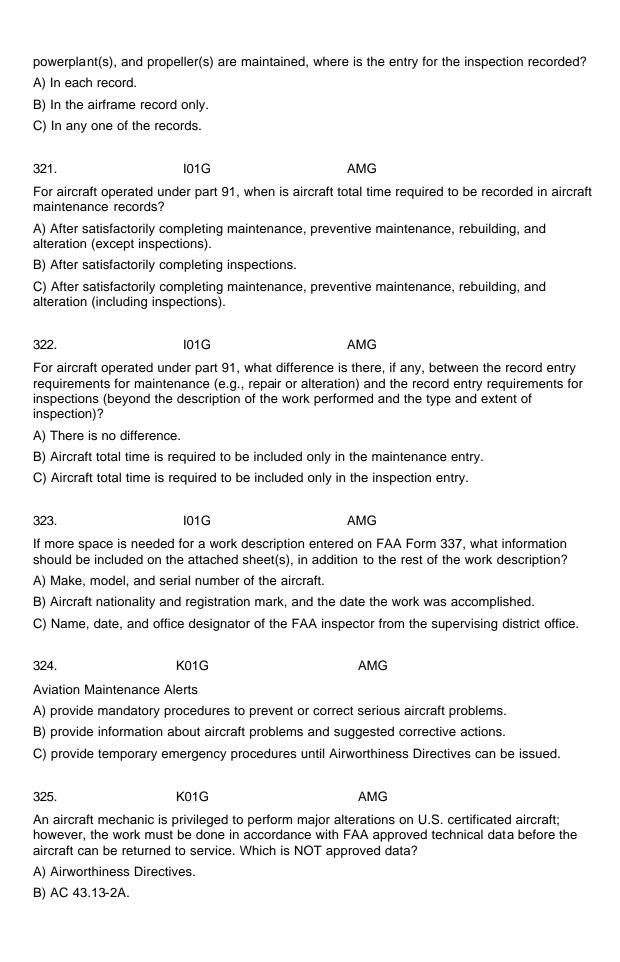
B) 14 CFR Part 65.C) AC 43.13-3.

	hese discrepancies, the item	inspected is airworthy.
C) the item ins	pected may or may not be a	irworthy depending on the discrepancies found.
304.	102G	AMG
In order to reco	onstruct lost or destroyed air	craft maintenance records, what is it necessary to
A) Dates of all	maintenance, preventive ma	aintenance, and alterations.
B) Dates and/c	or times of all 100-hour, annu	ual, or progressive inspections.
C) Total time-ir	n-service of the airframe.	
305.	102G	AMG
When work is prepare the for		necessitates the use of FAA Form 337, who should
A) The person	who performs or supervises	the work.
B) The person	who approves for return to s	ervice.
C) Either the p	erson who approves for retu	rn to service, or the aircraft owner or operator.
306.	102G	AMG
What is the sta service?	atus of data used as a basis	for approving major repairs or alterations for return
A) Data must b	e least FAA-acceptable whe	n it is used for that purpose.
B) Data must b	be FAA-approved prior to its	use for that purpose.
C) Data may b	e FAA-approved after its use	for that purpose.
	102G	AMG
307.	ent is true regarding the use	of EAA Form 3372
		011 AA 1 01111 337 :
Which stateme	337 is authorized for use with	both U.S. and foreign registered aircraft.
Which stateme A) FAA Form 3 B) FAA Form 3		
Which stateme A) FAA Form 3 B) FAA Form 3 aircraft when lo	337 is authorized for use with ocated in the United States.	both U.S. and foreign registered aircraft.
Which stateme A) FAA Form 3 B) FAA Form 3 aircraft when lo	337 is authorized for use with ocated in the United States.	n both U.S. and foreign registered aircraft. n U.S. registered aircraft, and foreign registered
Which stateme A) FAA Form 3 B) FAA Form 3 aircraft when lo C) FAA Form 3	337 is authorized for use with ocated in the United States. 337 is not authorized for use	both U.S. and foreign registered aircraft. U.S. registered aircraft, and foreign registered with other than U.S. registered aircraft.
Which stateme A) FAA Form 3 B) FAA Form 3 aircraft when lo C) FAA Form 3 308. Which is an ap	337 is authorized for use with ocated in the United States. 337 is not authorized for use	both U.S. and foreign registered aircraft. U.S. registered aircraft, and foreign registered with other than U.S. registered aircraft.
Which stateme A) FAA Form 3 B) FAA Form 3 aircraft when lo C) FAA Form 3 308. Which is an ap A) Overhaul of	337 is authorized for use with ocated in the United States. 337 is not authorized for use 101G opliance major repair?	n both U.S. and foreign registered aircraft. n U.S. registered aircraft, and foreign registered with other than U.S. registered aircraft. AMG
Which stateme A) FAA Form 3 B) FAA Form 3 aircraft when lo C) FAA Form 3 308. Which is an ap A) Overhaul of B) Repairs to a	337 is authorized for use with ocated in the United States. 337 is not authorized for use 101G opliance major repair? a hydraulic pressure pump. a propeller governor or its co	n both U.S. and foreign registered aircraft. n U.S. registered aircraft, and foreign registered with other than U.S. registered aircraft. AMG
Which stateme A) FAA Form 3 B) FAA Form 3 aircraft when lo C) FAA Form 3 308. Which is an ap A) Overhaul of B) Repairs to a	337 is authorized for use with ocated in the United States. 337 is not authorized for use 101G opliance major repair? a hydraulic pressure pump. a propeller governor or its co	n both U.S. and foreign registered aircraft. n U.S. registered aircraft, and foreign registered with other than U.S. registered aircraft. AMG ntrol.

unsafe conditions and p operated? A) Airworthiness Directiv B) Aviation Maintenance C) Aviation Safety Data.	ves. e Alerts.	r which the product may continue to be
310.	I01G	AMG
person on the maintenant A) approval of the aircra B) approval for return to	nce records for maintenance ft for return to service. service only for the work pe	factorily, the signature of an authorized or alterations performed constitutes rformed.
311.	101G	AMG
Which maintenance acti	on is an airframe major repa	ir?
characteristics.		ol surfaces which affect flutter and vibration
-	oil of an electrical accessory	
C) The repair of portions	s of skin sheets by making a	dditional seams.
312.	101G	AMG
Where is the record of coulletins normally indicated A) FAA Form 337. B) Aircraft maintenance C) Flight manual.	ted?	s Directives or manufacturers' service
313.	I01G	AMG
During an annual inspect person disapproving mu A) void the aircraft's Airv B) submit a Malfunction	st worthiness Certificate.	ch makes the aircraft unairworthy, the
314.	I01G	AMG
Where should you find t	his entry?	
		from outer 6 feet. Repaired buckled spar manufacturer's structural repair manual No.
A) Aircraft engine mainte	enance record.	
B) Aircraft minor repair a	and alteration record.	

C) FAA Form 3	37.	
315.	l01G	AMG
Which aircraft i		scription of the replacement of several damaged heli
		vere replaced. The damaged inserts were extracted, installed, and tangs removed.
B) Eight 1/4 - 2	0 inch standard heli-coils v	vere installed in place of damaged ones.
		serts were repaired by replacing the damaged inserts bles were checked for corrosion.
316.	I01G	AMG
	•	scribes the action taken for a control cable showing I of the individual outer wires at a fairlead?
A) Wear within	acceptable limits, repair n	ot necessary.
B) Removed ar	nd replaced the control cal	ole and rerigged the system.
C) Cable repos	sitioned, worn area moved	away from fairlead.
317.	I01G	AMG
	ance record entry best des of 1/2-inch aluminum allo	scribes the action taken for a .125-inch deep dent in a y tubing?
A) Dent within	acceptable limits, repair no	t necessary.
B) Dented sect	ion removed and replaced	with identical new tubing flared to 45°.
C) Dented sect	ion removed and replaced	with identical new tubing flared to 37°.
318.	I01G	AMG
Which aircraft rat a cluster?	ecord entry best describes	a repair of a dent in a tubular steel structure dented
A) Removed ar	nd replaced the damaged r	nember.
B) Welded a re	inforcing plate over the de	nted area.
C) Filled the da	amaged area with a molten	metal and dressed to the original contour.
319.	I01G	AMG
Which stateme	nt is true regarding the red	uirements for maintenance record format?
A) Any format t used.	that provides record contin	uity and includes the required information may be
B) The format _I	provided by the manufactu	rer of the aircraft must be retained.
C) Any desired Aviation Admin	_	r provided format requires approval from the Federal
320.	l01G	AMG

When a 100-hour inspection is completed, if separate maintenance records for the airframe,



C) Supplement	al Type Certificates.	
326.	K01G	AMG
What is the ma Airworthiness [nsibility of the person who complies with an
A) Advise the a	aircraft owner/operator of the	ne work performed.
B) Make an en	try in the maintenance rec	ord of that equipment.
C) Advise the F	FAA district office of the wo	ork performed, by submitting an FAA Form 337.
327.	K01G	AMG
	er's data and FAA publicat nd advisory circulars are a	ions such as Airworthiness Directives, Type Certificate
	a Sheets, and Aircraft Spe	Standard Orders, Airworthiness Directives, Type cifications and Supplemental Type Certificates are all
A) both No. 1 a	ind No. 2 are true.	
B) only No. 1 is	true.	
C) only No. 2 is	s true.	
328.	K01G	AMG
The Air Transp	ort Association of America	(ATA) Specification No. 100
(1) establishes	a standard for the present	tation of technical data in maintenance manuals.
(2) divides the maintenance in		tems and subsystems in order to simplify locating
Regarding the	above statements,	
A) both No. 1 a	ind No. 2 are true.	
B) neither No. 1	1 nor No. 2 is true.	
C) only No. 1 is	s true.	
329.	K01G	AMG
(1) Propellers a	are NOT included in the Ai	rworthiness Directive system.
(2) A certificate approve for rete		ay make a minor repair on an aluminum propeller and
Regarding the	above statements,	
A) only No. 2 is	true.	
B) both No. 1 a	ind No. 2 are true.	
	1 nor No. 2 is true.	
330.	K01G	AMG
(Refer to Gene	ral figure 62_62A_& 62B_a	as necessary.) Which doubler(s) require(s) heat

	re installation?	
A) -101.		
B) -102.		
C) Both.		
331.	K01G	AMG
Technical inforcan be found in		models, of which no more than 50 remain in service,
A) Aircraft Listin	ng.	
B) Summary of	f Deleted and Discontinued	Aircraft Specifications.
C) Index of Ant	tique Aircraft.	
332.	K01G	AMG
		Aircraft Specifications or Type Certificate Data
	ht of the aircraft.	
B) Useful load		
•	ace movements.	
o, control can	doo movemente.	
333.	K01G	AMG
		del manufactured under a type certificate, of which aft Registry, can be found in the
A) Aircraft Listin		at registry, can be round in the
•	rig. f Discontinued Aircraft Spe	cifications
•	ical Handbook of Civil Aircr	
O) I AA Olalisti	cal Hariabook of Olvii Alici	an opeomeanons.
334.	K01G	AMG
	K01G of an Airworthiness Certific	
The issuance of	of an Airworthiness Certifica	
	of an Airworthiness Certificate 23.	
The issuance of A) 14 CFR Part	of an Airworthiness Certificate 123.	
The issuance of A) 14 CFR Part B) 14 CFR Part	of an Airworthiness Certificate 123.	
The issuance of A) 14 CFR Part B) 14 CFR Part	of an Airworthiness Certificate 123.	
The issuance of A) 14 CFR Part B) 14 CFR Part C) 14 CFR Part 335.	of an Airworthiness Certificate 23. t 21. t 39. K01G	ate is governed by
The issuance of A) 14 CFR Part B) 14 CFR Part C) 14 CFR Part 335. When an airwo	of an Airworthiness Certificant 23. t 21. t 39. K01G orthy (at the time of sale) a	ate is governed by AMG
The issuance of A) 14 CFR Part B) 14 CFR Part C) 14 CFR Part 335. When an airwo A) becomes inv	of an Airworthiness Certificant 23. t 21. t 39. K01G orthy (at the time of sale) a valid until the aircraft is rein	AMG ircraft is sold, the Airworthiness Certificate
The issuance of A) 14 CFR Part B) 14 CFR Part C) 14 CFR Part 335. When an airwork A) becomes inv B) is voided an	of an Airworthiness Certificant 23. t 21. t 39. K01G orthy (at the time of sale) a valid until the aircraft is rein	AMG ircraft is sold, the Airworthiness Certificate aspected and approved for return to service.
The issuance of A) 14 CFR Part B) 14 CFR Part C) 14 CFR Part 335. When an airwork A) becomes inv B) is voided an	of an Airworthiness Certificate 23. t 21. t 39. K01G orthy (at the time of sale) a valid until the aircraft is reind a new certificate is issue	AMG ircraft is sold, the Airworthiness Certificate aspected and approved for return to service.

A) IIIaaliiiuiii i	uel grade to be used.	
•	ace adjustment points.	
C) location of	the datum.	
337.	K01G	AMG
Placards requi	ired on an aircraft are specif	ied in
A) AC 43.13-1	B.	
B) the Federal	Aviation Regulations under	which the aircraft was type certificated.
C) Aircraft Spe	ecifications or Type Certifica	te Data Sheets.
338.	K01G	AMG
Primary respo	nsibility for compliance with	Airworthiness Directives lies with the
A) certificated	mechanic who maintains the	e aircraft.
B) certificated inspections.	mechanic holding an Inspec	ction Authorization who conducts appropriate
C) aircraft owr	ner or operator.	
339.	K01G	AMG
•	use of a specific propeller wi	th a particular engine airplane combination can be onal source?
A) Propeller S	pecifications or Propeller Ty	pe Certificate Data Sheet.
B) Aircraft Spe	ecifications or Aircraft Type (Certificate Data Sheet.
C) Alphabetica Listings.	al Index of Current Propeller	Type Certificate Data Sheets, Specifications, and
340.	K01G	AMG
Airworthiness	Directives are issued primar	ily to
A) provide info	ormation about malfunction of	or defect trends.
B) present rec	ommended maintenance pro	ocedures for correcting potentially hazardous defects
C) correct an u	unsafe condition.	
341.	K01G	AMG
Where are tec	hnical descriptions of certific	cated propellers found?
A) Applicable	Airworthiness Directives.	
B) Aircraft Spe	ecifications.	
C) Propeller T	ype Certificate Data Sheets.	
342.	K01G	AMG

4	2 Sunnlemental Tyne (Certificate			
	Supplemental Type Certificate. Airworthiness Directive.				
	4. Technical Standard Order.				
	A) 1, 2, 3, and 4.				
	3) 1, 2, and 4.				
	C) 1, 2, and 3.				
`	5) 1, 2, and 5.				
3	343.	K01G	AMG		
		e 62, 62A, & 62B as necessary anic in the construction and ins	.) How many parts will need to be stallation of one doubler?		
/	A) 2.				
6	3) 3.				
(C) 4.				
3	344.	K01G	AMG		
	•	•	atement in an AD? "Required within the f this AD, unless already accomplished."		
1	A) Amendment.				
E	B) Compliance.				
(C) Applicability.				
3	345.	K01G	AMG		
		K01G an AD may take what form?	AMG		
-			AMG		
-	The action required by		AMG		
-	The action required by a linspection.		AMG		
- 2 3	The action required by a 1. Inspection. 2. Part(s) replacement.	an AD may take what form?	AMG		
- 2	The action required by a state of the section. 2. Part(s) replacement. 3. Design modification. 4. Change in operating	an AD may take what form? procedure(s).	AMG of aircraft maintenance records.		
- 2 3 4	The action required by a state of the section. 2. Part(s) replacement. 3. Design modification. 4. Change in operating	an AD may take what form? procedure(s).			
- 2 3 4	The action required by a 1. Inspection. 2. Part(s) replacement. 3. Design modification. 4. Change in operating 5. Overall change in the	an AD may take what form? procedure(s).			
- 2 3 4 4	The action required by a 1. Inspection. 2. Part(s) replacement. 3. Design modification. 4. Change in operating 5. Overall change in the A) 1, 2, 3, and/or 4.	an AD may take what form? procedure(s).			
- 2 3 4 5	The action required by a 1. Inspection. 2. Part(s) replacement. 3. Design modification. 4. Change in operating 5. Overall change in the A) 1, 2, 3, and/or 4. B) 1, 2, 3, and/or 5.	an AD may take what form? procedure(s).			
	The action required by a 1. Inspection. 2. Part(s) replacement. 3. Design modification. 4. Change in operating 5. Overall change in the A) 1, 2, 3, and/or 4. B) 1, 2, 3, and/or 5. C) 1, 2, 3, 4, and/or 5. C) 1, 2, 3, 4, and/or 5. The following words are (serial numbers 36216)	an AD may take what form? procedure(s). e content, form and disposition K01G e an example of what kind of st	of aircraft maintenance records. AMG ratement in an AD? "Model 172 airplanes been modified with Cessna Service Kit		
	The action required by a 1. Inspection. 2. Part(s) replacement. 3. Design modification. 4. Change in operating 5. Overall change in the A) 1, 2, 3, and/or 4. B) 1, 2, 3, and/or 5. C) 1, 2, 3, 4, and/or 5. C) 1, 2, 3, 4, and/or 5. The following words are (serial numbers 36216)	an AD may take what form? procedure(s). content, form and disposition K01G an example of what kind of stathrough 36769) that have not be	of aircraft maintenance records. AMG ratement in an AD? "Model 172 airplanes been modified with Cessna Service Kit		
	The action required by a 1. Inspection. 2. Part(s) replacement. 3. Design modification. 4. Change in operating 5. Overall change in the A) 1, 2, 3, and/or 4. B) 1, 2, 3, and/or 5. C) 1, 2, 3, 4, and/or 5. C) 1, 2, 3, 4, and/or 5. The following words are serial numbers 36216 5 5K-172-10 or SK-172-1	an AD may take what form? procedure(s). content, form and disposition K01G an example of what kind of stathrough 36769) that have not be	of aircraft maintenance records. AMG ratement in an AD? "Model 172 airplanes been modified with Cessna Service Kit		
	The action required by a 1. Inspection. 2. Part(s) replacement. 3. Design modification. 4. Change in operating 5. Overall change in the A) 1, 2, 3, and/or 4. B) 1, 2, 3, and/or 5. C) 1, 2, 3, 4, and/or 5. C) 1, 2, 3, 4, and/or 5. The following words are (serial numbers 36216 SK-172-10 or SK-172-14) Amendment.	an AD may take what form? procedure(s). content, form and disposition K01G an example of what kind of stathrough 36769) that have not be	of aircraft maintenance records. AMG ratement in an AD? "Model 172 airplanes been modified with Cessna Service Kit		
	The action required by a 1. Inspection. 2. Part(s) replacement. 3. Design modification. 4. Change in operating 5. Overall change in the A) 1, 2, 3, and/or 4. B) 1, 2, 3, and/or 5. C) 1, 2, 3, 4, and/or 5. The following words are (serial numbers 36216 SK-172-10 or SK-172-1A) Amendment. B) Compliance.	an AD may take what form? procedure(s). content, form and disposition K01G an example of what kind of stathrough 36769) that have not be	of aircraft maintenance records. AMG ratement in an AD? "Model 172 airplanes been modified with Cessna Service Kit		

		or which of the following products?
·	gines, and propellers.	
•	gines, and appliances.	
C) Aircraft, en	gines, propellers, and appli-	ances.
348.	K01G	AMG
How long are	AD compliance records req	uired to be kept?
A) Until the wo	ork is repeated or supersed	ed by other work.
B) For one yea other work.	ar after the work is performe	ed, or until the work is repeated or superseded by
C) They shall	be retained, and then transf	ferred with the aircraft when it is sold.
349.	K01G	AMG
What does the	Type Certificate Data She	et designation code "2 PCSM" mean?
A) Two place	(number of seats), closed, s	sea, monoplane.
B) Two wing (biplane), primary category,	semimonocoque (airframe).
C) Neither of t	the other two choices.	
350.	K01G	AMG
Which of the fo	ollowing includes all the reg	julatory definitions of "maintenance"?
A) Overhaul, r	epair, parts replacement, a	nd preservation, and preventive maintenance.
B) Overhaul, r	epair, parts replacement, pr	reservation, inspection, and preventive maintenance.
C) Overhaul, r	epair, parts replacement, in	spection, and preservation.
351.	K01G	AMG
What is the re	gulatory definition of "preve	ntive maintenance"?
,	ninor preservation operatior plex assembly operations.	ns and the replacement of small standard parts not
B) All preserva assembly ope		placement of standard parts, including any required
C) All preserva assembly ope		placement of standard parts not involving complex
352.	L01G	AMG
A certificated i	mechanic with a powerplant	rating may perform the
	pection required by the Federere and return	eral Aviation Regulations on a powerplant or any rn the same to service.

C) 100-hour inspection required by the Federal Aviation Regulations on an airframe, powerplant, or any other component thereof and approve and return the same to service.

B) 100-hour inspection required by the Federal Aviation Regulations on a powerplant or any component thereof and approve and return the same to service.

353.	L01G	AMG
Who has the au	thority to approve for ret	urn to service a propeller after a 100-hour inspection?
1. A mechanic v	with a powerplant rating.	
2. Any certificat	ed repairman.	
	eated mechanic working unwerplant ratings.	under the supervision of a certificated mechanic with
A) 1.		
B) 1 and 3.		
C) 2.		
354.	L01G	AMG
•	ng under the supervision ng is not authorized to pe	of a certificated mechanic with an airframe and rform
A) repair of a w	ing brace strut by welding	g.
B) a 100-hour ir	rspection.	
C) repair of an e	engine mount by riveting.	
355.	L01G	AMG
Which of these through self-loc		indards for protrusion of bolts, studs, and screws
A) AC 43.13-2.	king nuts :	
,	cifications or Type Certific	cate Data Sheets
C) AC 43.13-1B	• •	sate Data Greets.
0,710 10.10 12	·•	
356.	L01G	AMG
	sible for determining that in and conform to the appr	materials used in aircraft maintenance and repair are of
	g person or agency.	opriate standarde.
, ,	r operator of the aircraft.	
ŕ	cturer of the aircraft.	
o, manarat		
357.	L01G	AMG
		me rating may perform a minor repair to an airspeed sary tools and equipment available.
, ,		plant rating may perform a major repair to a propeller and equipment available.
Regarding the a	above statements,	
A) only No. 1 is	true.	
B) neither No. 1	nor No. 2 is true.	

C) only No. 2 is true.

358.	L01G	AMG
	months, the Administrator has	es of the certificate and rating unless, found that the certificate holder is able to
A) served as a mechani	c under the certificate and rati	ng for at least 18 months.
B) served as a mechani	c under the certificate and rati	ng for at least 12 months.
C) served as a mechani	c under the certificate and rati	ng for at least 6 months.
359.	L01G	AMG
Instrument repairs may	be performed	
A) by the instrument ma	nufacturer only.	
B) by an FAA-approved	instrument repair station.	
C) on airframe instrume	nts by mechanics with an airfr	ame rating.
360.	L01G	AMG
The replacement of a da from the aircraft manufa		new identical engine mount purchased
A) major or minor repair	, depending upon the complex	tity of the installation.
B) major repair.		
C) minor repair.		
361.	L01G	AMG
The replacement of a dather the aircraft manufacture		a new identical stabilizer purchased from
A) minor alteration.		
B) major repair.		
C) minor repair.		
362.	L01G	AMG
Certificated mechanics,	under their general certificate	privileges, may
A) perform minor repairs	•	,
B) perform 100-hour ins	pection of instruments.	
C) perform minor alterat	tions to instruments.	
363.	L01G	AMG
The 100-hour inspection operated for hire may be		Regulations for certain aircraft being
		priately rated mechanic, but the aircraft
must be approved by the	e mechanic for return to servic	e.

B) appropriately rated mechanics only if they have an inspection authorization.

C) appropriately	y rated mechanics and app	proved by them for return to service.
364.	L01G	AMG
	nt of fabric on fabric covere s is considered to be a	ed parts such as wings, fuselages, stabilizers, or
A) minor repair	unless the new cover is di	fferent in any way from the original cover.
B) minor repair	unless the underlying stru	cture is altered or repaired.
C) major repair	even though no other alte	ration or repair is performed.
365.	L01G	AMG
A repair, as per	formed on an airframe, sha	all mean
A) the upkeep a	and preservation of the airf	rame including the component parts thereof.
B) the restoration	on of the airframe to a con-	dition for safe operation after damage or deterioration.
	nor preservation operation lex assembly operations.	s and the replacement of small standard parts not
366.	L01G	AMG
Certificated me	chanics with a powerplant	rating may perform
	on required by the Federal thereof, and may release	Aviation Regulations on a powerplant or propeller or the same to service.
		quired by the Federal Aviation Regulations on the thereof, and may release the same to service.
		ederal Aviation Regulations on powerplants, d may release the same to service.
367.	L01G	AMG
An Airworthines	ss Directive requires that a	propeller be altered. Certificated mechanics could
	•	n to service if it is a minor alteration.
B) not perform	the work because it is an a	Iteration.
, .	the work because they are or alterations to propellers	not allowed to perform and approve for return to s.
368.	L01G	AMG
FAA certificated	d mechanics may	
A) approve for	return to service a major re	pair for which they are rated.
B) supervise ar	nd approve a 100-hour insp	pection.
C) approve for rating(s) they he		teration they have performed appropriate to the
369.	L01G	AMG
		gulations, what is the maximum penalty for duction of certificates, logbooks, reports, and

records? A) Ineligibility	rating for one year.			
B) Imprisonme	ent for one year and a \$5,00	0.00 fine.		
C) Suspension or revocation of any certificate held.				
370.	L01G	AMG		
What is the no	he normal duration a mechanic certificate with airframe and/or powerplant ratings			
A) Until the ho	older is relieved of duties for	which the holder was employed and certificated.		
B) Until surrer	ndered, suspended, or revok	ed.		
C) Until 24 mo	onths after the holder has la	st exercised the privileges of the certificate.		
371.	L01G	AMG		
Why is a mec required tests		nporary certificate after successful completion of t		
A) To allow fo	r review of his/her application	on and supplementary documents.		
B) So that a b	ackground check/investigati	on may be completed.		
C) Both of the	other two choices.			
372.	L01G	AMG		
What is the m	aximum duration of a tempo	orary airman certificate?		
A) 60 days.				
B) 90 days.				
C) 120 days.				
373.	L01G	AMG		
	otherwise qualified mechan	nic who does not read, write, speak, and understation of a mechanic certificate?		
A) When a special authorization has been issued by the supervising FAA Flight Standard District Office.				
B) When emp	loyed outside the United Sta	ites by a U.S. air carrier.		
C) When emp	loyed outside the United Sta	ates.		
374.	L01G	AMG		
	ollowing statements is true fairs and alterations?	for a certificated and appropriately rated mechani		
A) He/she mawork for return		repair or major alteration, but cannot approve the		
		pairs and minor alterations and approve the work irframe major repair or major alteration.		

C) He/she may perform an airframe major repair or major alteration and approve the work, but not the entire aircraft, for return to service.