04/13/2005

Bank: (RTA - General Questions)

Airman Knowledge Test Question Bank

Generated for St. George applicants retesting for the Aviation Mechanic Airframe ONLY Exam (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?

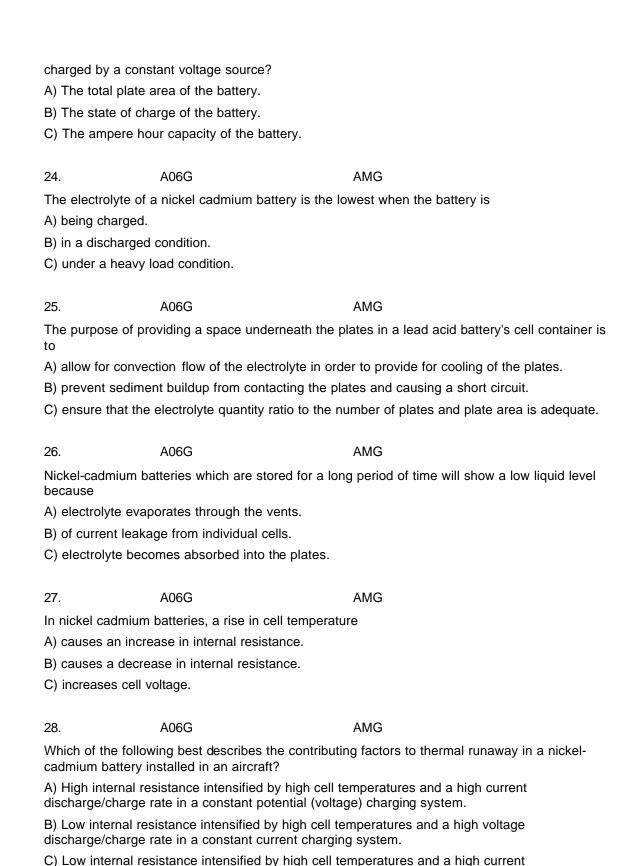
- A) Decrease the length or the cross sectional area.
- B) Decrease the length or increase the cross sectional area.
- C) Increase the length or decrease the cross sectional area.
- 5. A04G AMG

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

A) Copper.		
B) Iron.		
C) Aluminu	m.	
6.	A04G	AMG
	stors of 3 ohms, 5 ohms, and 22 ohr current will flow through the 3-ohm re	ns are connected in series in a 28-volt circuit, esistor?
A) 9.3 amp	eres.	
B) 1.05 am	peres.	
C) 0.93 am	pere.	
7.	A04G	AMG
(Refer to G	eneral figure 11.) Find the total curre	ent flowing in the wire between points C and D.
A) 6.0 amp	,	·
B) 2.4 amp	eres.	
C) 3.0 amp	eres.	
8.	A04G	AMG
What happ	ens to the current in a voltage step u	p transformer with a ratio of 1 to 4?
•	ent is stepped down by a 1 to 4 ratio	
ŕ	rent is stepped up by a 1 to 4 ratio.	
C) The curi	rent does not change.	
9.	A04G	AMG
Which requ	ires the most electrical power?	
(Note: 1 ho	rsepower = 746 watts)	
A) Four 30-	watt lamps arranged in a 12-volt par	allel circuit.
B) A 1/5-ho	rsepower, 24-volt motor which is 75	percent efficient.
•	It anticollision light circuit consisting of operation.	of two light assemblies which require 3 amperes
10.	A04G	AMG
What unit is	s used to express electrical power?	
A) Volt.		
B) Watt.		
C) Ampere.		
11.	A04G	AMG
Which of th	e following are commonly used as re	ectifiers in electrical circuits?
	·	

A) Anodes.B) Cathodes.		
C) Diodes.		
12.	A04G	AMG bulb designed for a 28-volt system?
A) 1.07 ohms.B) 26 ohms.C) 0.93 ohm.	ing resistance of a 30-watt light t	oub designed for a 20-voit system:
13.	A04G	AMG
A) 16 ohms. B) 2.6 ohms. C) 21.2 ohms.	figure 12.) Find the total resistand	ce of the circuit.
14.	A04G	AMG
A) Two electrical diseries as they will IB) If one of three bin will become greateC) An electrical device of the control of the co	have if connected in parallel. pulbs in a parallel lighting circuit is er.	ned resistance if they are connected in s removed, the total resistance of the circuit will use more power than one with a low
15.	A04G	AMG
(Refer to General f A) 25 ohms. B) 35 ohms. C) 17 ohms.	figure 14.) The total resistance of	f the circuit is
16.	A04G	AMG
	required to furnish 192 watts to nat is the value of each resistor?	a parallel circuit consisting of three resistors
17.	A04G	AMG
	24-volt source is required to furrual value. What is the value of each	nish 48 watts to a parallel circuit consisting of ach resistor?

A) 24 ohms.			
B) 12 ohms.			
C) 6 ohms.			
18.	A04G	AMG	
The voltage drop in	n a circuit of known resistance is	dependent on	
A) the voltage of the	ne circuit.		
B) only the resistar amperage.	nce of the conductor, and does n	ot change with a change in either voltage or	
C) the amperage of	of the circuit.		
19.	A04G	AMG	
	oplied voltage of 30 volts and a lostor. What is the voltage drop ac	ead consisting of a 10-ohm resistor in series tross the 10-ohm resistor?	
B) 20 volts.			
C) 30 volts.			
20.	A04G	AMG	
(Refer to General	figure 11.) Find the voltage acros	ss the 8-ohm resistor.	
A) 8 volts.			
B) 20.4 volts.			
C) 24 volts.			
21.	A06G	AMG	
		s (no load voltage = 2.1 volts per cell) ce. The internal resistance of the battery in	
A) 0.52 ohm.			
B) 2.52 ohms.			
C) 5.0 ohms.			
22	4000	AMC	
22.	A06G	AMG	
A fully charged lead acid battery will not freeze until extremely low temperatures are reached because			
A) the acid is in the plates, thereby increasing the specific gravity of the solution.			
B) most of the acid is in the solution.			
C) increased internal resistance generates sufficient heat to prevent freezing.			
22	A06C	AMC	
23.	A06G	AMG	
What determines the amount of current which will flow through a battery while it is being			

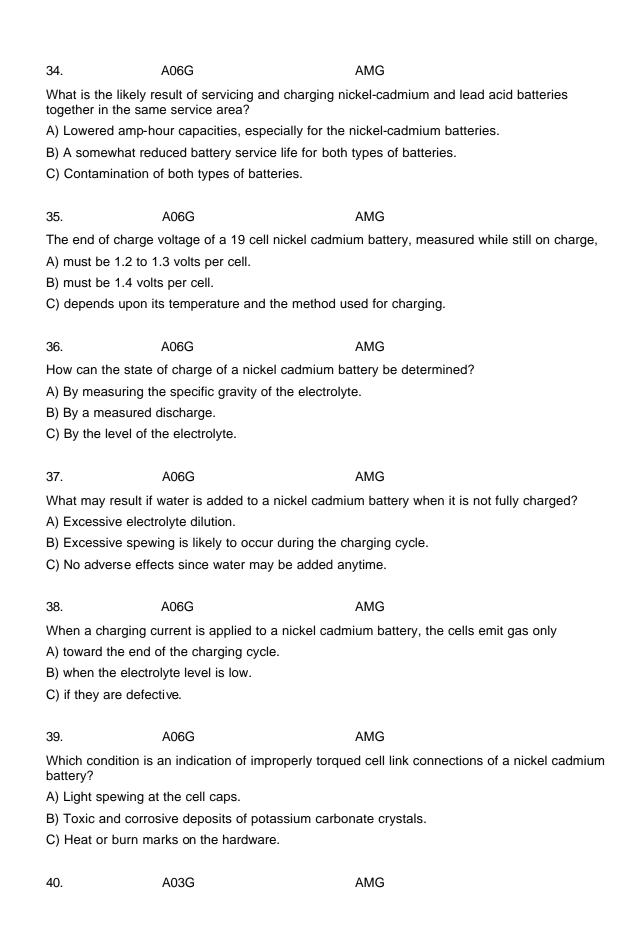


discharge/charge rate in a constant potential (voltage) charging system.

29.	A06G	AMG	
	any small amount of potassium ca cells in service is an indication of	rbonate deposits on the top of nickel-	
A) normal operation			
B) excessive gass			
C) plate sulfation.	9.		
o) plate callation.			
30.	A06G	AMG	
If electrolyte from should be followed		e battery compartment, which procedure	
A) Apply boric acid	d solution to the affected area foll	owed by a water rinse.	
B) Rinse the affect	ted area thoroughly with clean wa	ater.	
C) Apply sodium b	picarbonate solution to the affecte	d area followed by a water rinse.	
31.	A06G	AMG	
Which statement rtrue?	regarding the hydrometer reading	of a lead acid storage battery electrolyte is	
A) The hydromete temperature is 80		perature correction if the electrolyte	
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.		
32.	A06G	AMG	
batteries together		rue regarding the charging of several aircraft	
	erent voltages (but similar capacit harger, and charged using the co	ries) can be connected in series with each onstant 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.			
33.	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.



Which term means	.001 ampere?	
A) Microampere.		
B) Kiloampere.		
C) Milliampere.		
41.	A03G	AMG
(Refer to figure 8.) ohmmeter read?	With an ohmmeter connected int	o the circuit as shown, what will the
A) 20 ohms.		
B) Infinite resistance	ce.	
C) 10 ohms.		
42.	A03G	AMG
(Refer to General f correctly?	igure 9.) How many instruments	(voltmeters and ammeters) are installed
A) Three.		
B) One.		
C) Two.		
43.	A03G	AMG
The correct way to	connect a test voltmeter in a circ	euit is
A) in series with a	unit.	
B) between the sou	urce voltage and the load.	
C) in parallel with a	a unit.	
44.	A03G	AMG
		terminal D, what will the ohmmeter read?
A) Infinite resistance	ce.	
B) 10 ohms.		
C) 20 ohms.		
45.	A03G	AMG
		ected at the junction of R4 and R3 as
shown, what will th		
A) 2.76 ohms.		
B) 3 ohms.		
C) 12 ohms.		
46.	A03G	AMG
A 14-ohm resistor i the resistor be requ		t carrying .05 ampere. How much power will
1110 10010101 00 1091	anda to alcolpato.	

A) At least .70 milliwatt.			
B) At least 35 milliwatts.			
C) Less than .035	watt.		
47.	A03G	AMG	
	of 10 watts and a dome light of 2 ge across the 10-watt light is mea	0 watts are connected in parallel to a 30-volt asured, it will be	
A) equal to the volt	tage across the 20-watt light.		
B) half the voltage	across the 20-watt light.		
C) one-third of the	input voltage.		
40	4000	AMO	
48.	A03G	AMG	
(Refer to General f terminals A and B?	·	voltage of the series parallel circuit between	
A) 1.5 volts.			
B) 3.0 volts.			
C) 6.0 volts.			
49.	A03G	AMG	
	A030	AWO	
.002KV equals			
A) 20 volts.B) 2.0 volts.			
C) .2 volt.			
C) .2 VOIL.			
50.	A05G	AMG	
(Refer to figure 26. inputs?) Which of the logic gate output of	conditions is correct with respect to the given	
A) 1.			
B) 2.			
C) 3.			
51.	A05G	AMG	
(Refer to figure 25.) In a functional and operating ci	rcuit, the depicted logic gate's output will be	
A) only when all in	puts are 0.		
B) when all inputs a	are 1.		
C) when one or mo	ore inputs are 0.		
52.	A05G	AMG	
(Refer to General f	igure 24.) Which statement conc	erning the depicted logic gate is true?	
A) Any input being	1 will produce a 0 output.		

B) Any input being 1 will produce a 1 output.C) All inputs must be 1 to produce a 1 output.				
53.	A05G	AMG		
A) base is negative B) base is positive	tor application, the solid state de- e with respect to the emitter. with respect to the emitter. tive with respect to the base.	vice is turned on when the		
54.	A05G	AMG		
Forward biasing o A) conduct via zer B) conduct. C) turn off.	f a solid state device will cause the breakdown.	he device to		
55.	A05G	AMG		
Typical application for zener diodes is as A) full-wave rectifiers. B) half-wave rectifiers. C) voltage regulators.				
56.	A05G	AMG		
	stor application, the solid state d ve with respect to the base.	evice is turned on when the		
	e with respect to the emitter.			
o, 2000 to posture				
57. A05G AMG (Refer to General figure 22.) Which illustration is correct concerning bias application and current (positive charge) flow? A) 1. B) 2. C) 3.				
58.(Refer to figure 17A) inductor.B) resistor.C) capacitor.	A05G 7.) The electrical symbol represen	AMG ated at number 5 is a variable		

When referring to an electrical circuit diagram, what point is considered to be at zero voltage?				
A) The circuit breaker.				
B) The ground	reference.			
C) The switch.				
60.	A05G	AMG		
	21.) Which symbol represents a v	ariable resistor?		
A) 2.				
B) 1.				
C) 3.				
61.	A05G	AMG		
(Refer to Gene	ral figure 15.) The No. 7 wire is use	ed to		
A) close the Pl	JSH TO TEST circuit.			
B) open the UF	indicator light circuit when the lan	ding gear is retracted.		
C) close the UF	indicator light circuit when the lan	iding gear is retracted.		
62.	A05G	AMG		
,	16.) Energize the circuit with the full Using the schematic, identify the sw	uel tank selector switch selected to the left witches that will change position.		
A) 5, 9, 10, 11,	12, 13, 15.			
B) 3, 5, 6, 7, 11				
C) 5, 6, 11, 12,	13, 15, 16.			
63.	A05G	AMG		
A thermal switch	ch, as used in an electric motor, is	designed to		
A) close the integral fan circuit to allow cooling of the motor.				
B) open the circuit in order to allow cooling of the motor.				
C) reroute the circuit to ground.				
C4	4050	AMC		
64.	A05G	AMG		
(Refer to figure 16.) The TCO relay will operate if 24 volts dc is applied to the bus and the fuel tank selector is in the				
A) right hand tank position.				
B) crossfeed position.				
C) left hand tank position.				
65.	A05G	AMG		
(Refer to Gene	(Refer to General figure 16.) With power to the bus and the fuel selector switched to the right			

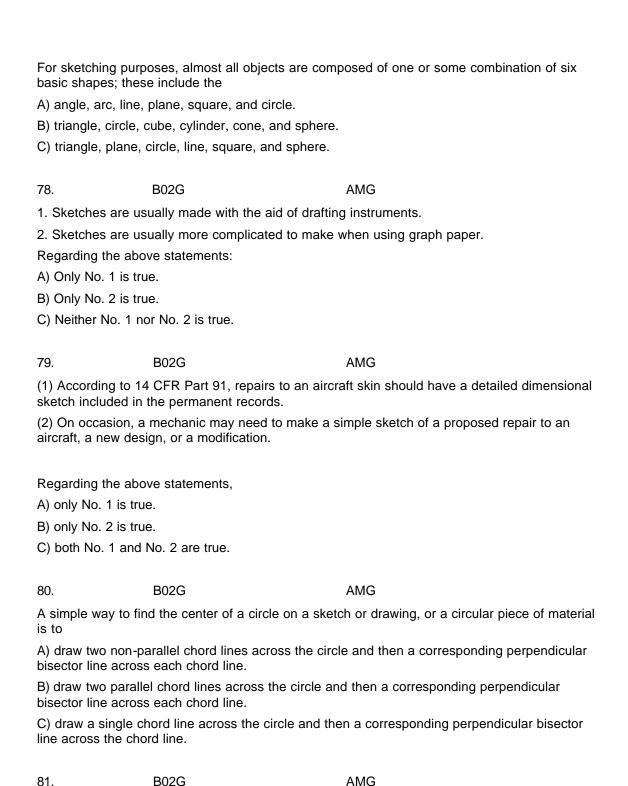
AMG

59.

A05G

hand tank, h A) Three. B) Two. C) Four.	now many relays in the	system are operating?
66.	A05G	AMG
•	eneral figure 16.) When	electrical power is applied to the bus, which relays are
energized?	TCC	
A) PCC and B) TCC and		
C) PCO and		
J, 1 J J J J J J J J J J J J J J J J J J		
67.	A05G	AMG
, ,	ure 18.) The control va rs are down to	ve switch must be placed in the neutral position when the
A) permit the	e test circuit to operate	
	•	ounding when the throttles are closed.
C) remove t	he ground from the gre	en light.
68.	A05G	AMG
		which condition will a ground be provided for the warning nen the throttles are closed?
A) Right gea	ar up and left gear dow	1.
,	rs up and the control va	
C) Left gear	up and right gear dow	1.
69.	A05G	AMG
` _	ure 19.) When the throit sound if an open occu	tles are retarded with only the right gear down, the warning rs in wire
A) No. 5.		
B) No. 13.		
C) No. 6.		
70.	A05G	AMG
	ure 19.) When the land sound if an open occu	ing gears are up and the throttles are retarded, the warning rs in wire
A) No. 5.		
B) No. 7.		
C) No. 6.		
71.	A05G	AMG

(Refer to Ge	(Refer to General figure 20.) Troubleshooting an open circuit with a voltmeter as shown in this circuit will			
A) permit cu	A) permit current to flow and illuminate the lamp.			
B) create a	low resistance path and	the current flow will be greater than normal.		
C) permit th	e battery voltage to appe	ear on the voltmeter.		
72.	A05G	AMG		
•	eneral figure 16.) What work is selected?	ill be the effect if the PCO relay fails to operate when the		
A) The fuel	pressure crossfeed valve	will not open.		
B) The fuel	tank crossfeed valve ope	n light will illuminate.		
C) The fuel	pressure crossfeed valve	e open light will not illuminate.		
73.	A05G	AMG		
•	eneral figure 15.) With the an open occurs in wire	e landing gear retracted, the red indicator light will not		
A) No. 19.				
B) No. 7.				
C) No. 17.				
74.	A05G	AMG		
(Refer to Ge	eneral figure 23.) If an op	en occurs at R1, the light		
A) cannot be	e turned on.			
B) will not be	e affected.			
C) cannot be	e turned off.			
75.	A05G	AMG		
,	(Refer to General figure 15.) When the landing gear is down, the green light will not come on if an open occurs in wire			
A) No. 7.				
B) No. 6.				
C) No. 17.				
76.	B02G	AMG		
Which state	ment is applicable when	using a sketch for making a part?		
A) The skete drawings.	A) The sketch may be used only if supplemented with three view orthographic projection			
_	ch must show all informa	tion to manufacture the part.		
C) The sketch need not show all necessary construction details.				
77.	B02G	AMG		



(Refer to General figure 31.) What are the proper procedural steps for sketching repairs and

alterations?
A) 3, 1, 4, 2.
B) 4, 2, 3, 1.
C) 1, 3, 4, 2.

82. B02G AMG			
(Refer to General figure 32.) What is the next step required for a working sketch of the illustration?			
A) Darken the object outlines.			
B) Sketch extension and dimension lines.			
C) Add notes, dimensions, title, and date.			
83. B02G AMG			
What should be the first step of the procedure in sketching an aircraft wing skin repair?			
A) Draw heavy guidelines.			
B) Lay out the repair.			
C) Block in the views.			
84. B02G AMG			
What material symbol is frequently used in drawings to represent all metals?			
A) Steel.			
B) Cast iron.			
C) Aluminum.			
85. B02G AMG			
(Refer to General figure 33.) Which material section line symbol indicates cast iron?			
A) 1.			
B) 2.			
C) 3.			
86. B02G AMG			
What is the class of working drawing that is the description/depiction of a single part?			
A) Installation drawing.			
B) Assembly drawing			
C) Detail drawing.			
87. B03G AMG			
Zone numbers on aircraft blueprints are used to			
A) locate parts, sections, and views on large drawings. B) indicate different sections of the aircraft.			
C) locate parts in the aircraft.			
88. B03G AMG			
When reading a blueprint, a dimension is given as 4.387 inches +.003002. Which state	ement		

A) The maximum acceptable size is 4.390 inches.				
B) The minimum acceptable size is 4.386 inches.				
C) The minimum	C) The minimum acceptable size is 4.382 inches.			
89.	B03G	AMG		
What is the allows shown on the blue		a bushing where the outside dimensions		
1.0625 + .0025	.0003?			
A) .0028.				
B) 1.0650.				
C) 1.0647.				
90.	B03G	AMG		
A hydraulic syster	m schematic drawing typically inc	licates the		
A) specific locatio	on of the individual components w	ithin the aircraft.		
B) direction of flui	id flow through the system.			
C) amount of pres	ssure in the pressure and return I	ines, and in system components.		
		· ·		
91.	B03G	AMG		
(Refer to General of the lowest 15/6		between the top of the plate and the bottom		
A) 2.250.				
B) 2.242.				
C) 2.367.				
92.	B03G	AMG		
(Refer to General	figure 36.) The diameter of the h	oles in the finished object is		
A) 3/4 inch.				
B) 31/64 inch.				
C) 1/2 inch.				
93.	B03G	AMG		
(Refer to General clevis bolthole?	figure 34.) Using the information	, what size drill would be required to drill the		
A) 5/16 inch.				
B) 21/64 inch.				
C) 1/2 inch.				
94.	B03G	AMG		

(Refer to General A) 1/16 X 37°.	al figure 34.) What is the dimensio	n of the chamfer?
B) 0.3125 +.005	-0.	
C) 0.0625 X 45°		
,		
95.	B03G	AMG
(Refer to Genera	al figure 34.) What is the maximum	n diameter of the hole for the clevis pin?
A) 0.3175.		
B) 0.3130.		
C) 0.31255.		
96.	B03G	AMG
	al figure 34.) What would be the m construction of the clevis that wou	inimum diameter of 4130 round stock ld produce a machined surface?
A) 55/64 inch.		
B) 1 inch.		
C) 7/8 inch.		
97.	B03G	AMG
In the reading of components,	aircraft blueprints, the term 'tolera	nnce', used in association with aircraft parts or
	permissible fit for proper construc	etion and operation of mating parts.
B) is the differer acceptable.	nce between extreme permissible of	dimensions that a part may have and still be
C) represents th aircraft parts.	e limit of galvanic compatibility bet	ween different adjoining material types in
98.	B03G	AMG
One purpose for	schematic diagrams is to show th	е
A) functional loc	ation of components within a syste	em.
B) physical loca	tion of components within a syster	n.
C) size and shap	pe of components within a system	
99.	B03G	AMG
	ent should not be scaled from an a	aircraft print because the paper shrinks or
	·	nd accurately drawn to scale, and is

Regarding the above statements,

A) only No. 2 is true.

B) both No. 1 and	No. 2 are true.	
C) neither No. 1 n	or No. 2 is true.	
100.	B03G	AMG
The drawings ofte	en used in illustrated pa	ırts manuals are
A) exploded view	drawings.	
B) block drawings	S.	
C) detail drawings	S.	
101.	B03G	AMG
called	n the subassemblies o	r parts are shown as brought together on the aircraft is
A) an assembly di	rawing.	
B) an installation of	drawing.	
C) a detail drawing	g.	
102.	B03G	AMG
		which of the following?
J		earance of components in a system.
	ng system malfunctions	
,	•	al components in a system.
,		·
103.	B03G	AMG
In what type of electrical symbols	_	ages of components used instead of conventional
A) A pictorial diag		
B) A schematic di		
C) A block diagrai	m.	
104.	B04G	AMG
(Refer to General temperature is 80		the proper tension for a 1/8-inch cable (7 x 19) if the
A) 70 pounds.		
B) 75 pounds.		
C) 80 pounds.		
105.	B04G	AMG
(Refer to General	figure 40.) Determine	AMG the proper tension for a 3/16-inch cable (7 x 19 extra
	figure 40.) Determine	-

C) 140 po	ounds.	
106.	B04G	AMG
	General figure 41.) Determine the ,350 RPM.	fuel consumption with the engine operating at
A) 49.2 p	oounds per hour.	
B) 51.2 p	oounds per hour.	
C) 55.3 p	pounds per hour.	
107.	B04G	AMG
	operating at 2,300 RPM.	w much fuel would be required for a 30-minute
B) 35.5 p	oounds.	
C) 49.8 p	oounds.	
108.	B04G	AMG
displacer		procating engine has a 1,830 cubic-inch rsepower at 2,500 RPM. What is the brake mean
C) 225.		
109.	B04G	AMG
displacer		procating engine has a 2,800 cubic-inch power, and indicates 270 brake-mean effective?
A) 2,200.		
B) 2,100.		
C) 2,300.		
110.	B04G	AMG
(Refer to displacer	General figure 38.) An aircraft reci	iprocating engine has a 2,800 cubic-inch rsepower at 2,200 RPM. What is the brake mean
A) 257.5.		
B) 242.5.		
C) 275.0.		
111.	B04G	AMG
(Refer to	General ligure 39.) Determine the	cable size of a 40-foot length of single cable in free

air, with a continuous ra ampere load and a 1-vo		equipment in a 28-volt system with a 15-	
A) No. 10.			
B) No. 11.			
C) No. 18.			
,			
112.	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 drop.			
A) 8 feet.			
B) 10 feet.			
C) 12 feet.			
,			
113.	B04G	AMG	
•	urrent of 20 amperes 10 feet fro	vire size of a single cable in a bundle om the bus to the equipment in a 28-volt	
A) No. 12.			
B) No. 14.			
C) No. 16.			
,			
114.	B04G	AMG	
(Refer to General figure 39.) Determine the maximum length of a No. 12 single cable that can be used between a 28-volt bus and a component utilizing 20 amperes continuous load in free air with a maximum acceptable 1-volt drop.			
A) 22.5 feet.			
B) 26.5 feet.			
C) 12.5 feet.			
,			
115.	C02G	AMG	
When making a rearward weight and balance check to determine that the CG will not exceed the rearward limit during extreme conditions, the items of useful load which should be computed at their minimum weights are those located forward of the			
A) forward CG limit.			
B) datum.			
C) rearward CG limit.			
,			
116.	C02G	AMG	
When, or under what co	ondition(s) are adverse loading	checks conducted?	
A) At or below the maxi	mum gross weight of the aircra	ft.	
B) Anytime a repair or alteration causes EWCG to fall within the EWCG range.			

117.	C02G	AMG
An aircraft wit as follows:	th an empty weight of 1,800	pounds and an empty weight CG of +31.5 was altered
1. two 15-pou	nd passenger seats located	at +72 were removed;
2. structural m	nodifications increasing the	weight 14 pounds were made at +76;
3. a seat and	safety belt weighing 20 pour	nds were installed at +73.5; and
4. radio equip	ment weighing 30 pounds w	ras installed at +30.
What is the ne	ew empty weight CG?	
A) +30.61.		
B) +31.61.		
C) +32.69.		
118.	C02G	AMG
An aircraft wit as follows:	h an empty weight of 2,100	pounds and an empty weight CG +32.5 was altered
1. two 18-pou	nd passenger seats located	at +73 were removed;
2. structural n	nodifications were made at +	+77 increasing weight by 17 pounds;
3. a seat and	safety belt weighing 25 pou	nds were installed at +74.5; and
4. radio equip	ment weighing 35 pounds w	and the stallest of the CE
		as installed at +95.
What is the ne	ew empty weight CG?	as installed at +95.
What is the ne A) +34.01.		as installed at +95.
A) +34.01.		as installed at +95.
		as installed at +95.
A) +34.01. B) +33.68. C) +34.65.		AMG
A) +34.01. B) +33.68. C) +34.65. 119. An aircraft as inches to +42	ew empty weight CG? C02G loaded weighs 4,954 pound	AMG s at a CG of +30.5 inches. The CG range is +32.0 weight of the ballast necessary to bring the CG
A) +34.01. B) +33.68. C) +34.65. 119. An aircraft as inches to +42 within the CG	C02G loaded weighs 4,954 pound .1 inches. Find the minimum range. The ballast arm is +	AMG s at a CG of +30.5 inches. The CG range is +32.0 weight of the ballast necessary to bring the CG
A) +34.01.B) +33.68.C) +34.65.119.An aircraft as inches to +42	C02G loaded weighs 4,954 pound .1 inches. Find the minimum range. The ballast arm is +	AMG s at a CG of +30.5 inches. The CG range is +32.0 weight of the ballast necessary to bring the CG
A) +34.01. B) +33.68. C) +34.65. 119. An aircraft as inches to +42 within the CG A) 61.98 pour	C02G loaded weighs 4,954 pound 1 inches. Find the minimum range. The ballast arm is + ads.	AMG s at a CG of +30.5 inches. The CG range is +32.0 weight of the ballast necessary to bring the CG
A) +34.01. B) +33.68. C) +34.65. 119. An aircraft as inches to +42 within the CG A) 61.98 pour B) 30.58 pour C) 57.16 pour	C02G loaded weighs 4,954 pound 1 inches. Find the minimum range. The ballast arm is + ads.	AMG s at a CG of +30.5 inches. The CG range is +32.0 weight of the ballast necessary to bring the CG
A) +34.01. B) +33.68. C) +34.65. 119. An aircraft as inches to +42 within the CG A) 61.98 pour B) 30.58 pour C) 57.16 pour 120. Find the empt weighs 753 prwheels is 87.5	C02G loaded weighs 4,954 pound 1 inches. Find the minimum range. The ballast arm is + ads. ads. ads. C02G by weight CG location for the bounds, nosewheel weighs 2	AMG s at a CG of +30.5 inches. The CG range is +32.0 n weight of the ballast necessary to bring the CG 162 inches. AMG s following tricycle gear aircraft. Each main wheel 2 pounds, distance between nosewheel and main n is +9.875 inches from datum, with 1 gallon of
A) +34.01. B) +33.68. C) +34.65. 119. An aircraft as inches to +42 within the CG A) 61.98 pour B) 30.58 pour C) 57.16 pour 120. Find the empt weighs 753 prwheels is 87.5	C02G loaded weighs 4,954 pound.1 inches. Find the minimum range. The ballast arm is + nds. nds. C02G ty weight CG location for the bounds, nosewheel weighs 2:5 inches, nosewheel location at -21.0 inches included in	AMG s at a CG of +30.5 inches. The CG range is +32.0 n weight of the ballast necessary to bring the CG 162 inches. AMG s following tricycle gear aircraft. Each main wheel 2 pounds, distance between nosewheel and main n is +9.875 inches from datum, with 1 gallon of
A) +34.01. B) +33.68. C) +34.65. 119. An aircraft as inches to +42 within the CG A) 61.98 pour B) 30.58 pour C) 57.16 pour 120. Find the empt weighs 753 pour yeighs 753 pou	C02G loaded weighs 4,954 pound 1 inches. Find the minimum range. The ballast arm is + ads. ads. ads. C02G by weight CG location for the bounds, nosewheel weighs 25 inches, nosewheel location at -21.0 inches included in ches.	AMG s at a CG of +30.5 inches. The CG range is +32.0 n weight of the ballast necessary to bring the CG 162 inches. AMG s following tricycle gear aircraft. Each main wheel 2 pounds, distance between nosewheel and main n is +9.875 inches from datum, with 1 gallon of

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.

122. 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.

123. C02G AMG

If a 40-pound generator applies +1400-inch pounds to a reference axis, the generator is located

A) -35 from the axis.

C) 8 feet.

- B) +35 from the axis.
- C) +25 from the axis.

124. 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.		
125.	C02G	AMG
with an arm of 195.	5 inches. At the nose	combined net weight at the main gears is 3,540 pounds e gear, the net weight is 2,322 pounds with an arm of of the nose of the aircraft. What is the empty CG of the
C) 146.5.		
126.	C02G	AMG
		0 pounds and an empty weight CG of +28.4 was altered
	ats located at +68.5	were removed:
•		pounds were made at +73;
		bunds were installed at +70.5; and
•		was installed at +85.
What is the new em		
A) +23.51.	ip iy ii digiii dadi	
B) +31.35.		
C) +30.30.		
,		
127.	C02G	AMG
was replaced by a weight and balance	model D engine weig records show the p	on an aircraft: A model B engine weighing 175 pounds whing 185 pounds at a -62.00 inch station. The aircraft revious empty weight to be 998 pounds and an empty new empty weight CG?
A) 13.96 inches.		
B) 14.25 inches.		
C) 12.73 inches.		
128.	C02G	AMG
However, when the	aircraft was weighe	n aircraft is 5,862 pounds with a moment of 885,957. d, 20 pounds of potable water were on board at +84, a tank located at +101. What is the empty weight CG
A) 150.700.		
B) 151.700.		
C) 151.365.		

129.	C02G	AMG			
If the empty weight CG of an airplane lies within the empty weight CG limits,					
A) it is necessary to calculate CG extremes.					
•	to calculate CG extremes.				
,	ald be used in both forward and	rearward CG checks.			
130.	C02G	AMG			
The amount of fuel us	sed for computing empty weight	and corresponding CG is			
A) empty fuel tanks.					
B) unusable fuel.					
C) the amount of fuel	necessary for 1/2 hour of opera	tion.			
404	0000				
131.	C02G	AMG			
Improper loading of a hazardous due to the	helicopter which results in exce	eding either the fore or aft CG limits is			
A) reduction or loss of	f effective cyclic pitch control.				
•	g translated to the fuselage.				
C) reduction or loss o	f effective collective pitch contro	l.			
132.	C02G	AMG			
The CG range in sing	le rotor helicopters is				
A) much greater than	A) much greater than for airplanes.				
B) approximately the same as the CG range for airplanes.					
B) approximately the	•	anes.			
B) approximately the : C) more restricted that	same as the CG range for airpla	anes.			
C) more restricted that	same as the CG range for airpla an for airplanes.				
C) more restricted that 133.	same as the CG range for airpla an for airplanes.	AMG			
C) more restricted that 133.	same as the CG range for airplant for airplant for airplanes. C02G equal, if an item of useful load I				
C) more restricted that 133. All other things being the aircraft's CG chan	same as the CG range for airplant for airplant for airplanes. C02G equal, if an item of useful load I	AMG ocated aft of an aircraft's CG is removed,			
C) more restricted that 133. All other things being the aircraft's CG chan A) aft in proportion to B) forward in proportion	same as the CG range for airplant for airplants. C02G equal, if an item of useful load I ge will be the weight of the item and its loon to the weight of the item and	AMG ocated aft of an aircraft's CG is removed, cation in the aircraft. its location in the aircraft.			
C) more restricted that 133. All other things being the aircraft's CG chan A) aft in proportion to B) forward in proportion	same as the CG range for airplant for airplants. C02G equal, if an item of useful load I ge will be the weight of the item and its loon to the weight of the item and	AMG ocated aft of an aircraft's CG is removed, cation in the aircraft.			
C) more restricted that 133. All other things being the aircraft's CG chan A) aft in proportion to B) forward in proportion	same as the CG range for airplant for airplants. C02G equal, if an item of useful load I ge will be the weight of the item and its loon to the weight of the item and	AMG ocated aft of an aircraft's CG is removed, cation in the aircraft. its location in the aircraft.			
C) more restricted that 133. All other things being the aircraft's CG chan A) aft in proportion to B) forward in proportion C) forward in proportion 134.	same as the CG range for airplant for airplants. C02G equal, if an item of useful load I ge will be the weight of the item and its loon to the weight of the item and on to the weight of the item, reg	AMG ocated aft of an aircraft's CG is removed, cation in the aircraft. its location in the aircraft. ardless of its location in the aircraft.			
C) more restricted that 133. All other things being the aircraft's CG chan A) aft in proportion to B) forward in proportion C) forward in proportion 134. The maximum weight found	same as the CG range for airplant an for airplanes. C02G equal, if an item of useful load I age will be the weight of the item and its loon to the weight of the item and on to the weight of the item, reg C02G as used in weight and balance	AMG ocated aft of an aircraft's CG is removed, cation in the aircraft. its location in the aircraft. ardless of its location in the aircraft. AMG			
C) more restricted that 133. All other things being the aircraft's CG chan A) aft in proportion to B) forward in proportion C) forward in proportion 134. The maximum weight found A) by adding the weight empty weight.	same as the CG range for airplant an for airplanes. C02G equal, if an item of useful load I age will be the weight of the item and its loon to the weight of the item and on to the weight of the item, reg C02G as used in weight and balance	AMG ocated aft of an aircraft's CG is removed, cation in the aircraft. its location in the aircraft. ardless of its location in the aircraft. AMG control of a given aircraft can normally be and maximum allowable baggage to the			

135.	C02G	AMG
The useful loa	ad of an aircraft is the differer	ice between
A) the maxim	um 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.
136.	C02G	AMG
An aircraft's L	EMAC and TEMAC are defined	ed in terms of distance
A) from the da	atum.	
B) from each	other.	
C) ahead of a	and behind the wing center of	lift, respectively.
137.	C02G	AMG
In a balance of removed, use	•	n which an item located aft of the datum was
A) (-)weight X	(+)arm (-)moment.	
B) (-)weight X	((-)arm (+)moment.	
C) (+)weight 2	X (-)arm (-)moment.	
138.	C02G	AMG
	plishing loading computations tht and balance records would	for a small aircraft, necessary information obtained include
A) unusable f	uel weight and distance from	datum.
B) weight and	d location of permanent ballas	it.
C) current em	npty weight and empty weight	CG.
139.	D01G	AMG
When installing	ng bonded clamps to support	metal tubing,
A) paint remo	val from tubing is not recomn	nended.
B) paint clam	p and tube after clamp install	ation to prevent corrosion.
C) remove pa	int or anodizing from tube at	clamp location.
140.	D01G	AMG
(1) Bonded cl	amps are used for support w	nen installing metal tubing.
(2) Unbonded	I clamps are used for support	when installing wiring.
Regarding the	e above statements,	
A) only No. 1	is true.	
B) both No. 1	and No. 2 are true.	

C) neither No. 1 nor No.	o. 2 is true.		
141.When flaring aluminumA) 37°.B) 39°.C) 45°.	D01G tubing for use with AN fittings,	AMG the flare angle must be	
142.	D01G	AMG	
	uences of steps, indicate the p	roper order you would use to make a	
1. Place the tube in the	e proper size hole in the flaring	block.	
2. Project the end of the tube slightly from the top of the flaring tool, about the thickness of a dime.			
3. Slip the fitting nut an		inha hannan an an an Hadana da maraba	
 Strike the plunger several light blows with a lightweight hammer or mallet and turn the plunger one half turn after each blow. 			
	ar securely to prevent slippage.		
	r flaring pin over the tube.		
A) 1, 3, 5, 2, 4, 6. B) 3, 1, 6, 2, 5, 4.			
C) 3, 1, 2, 6, 5, 4.			
0, 0, 1, 2, 0, 0, 11			
143.	D01G	AMG	
What is an advantage	of a double flare on aluminum t	tubing?	
A) Ease of construction			
	mage when the joint is tightened		
C) Can be applied to a	ny size and wall-thickness of tu	ibing.	
144.	D01G	AMG	
The primary purpose of	f providing suitable bends in flu	uid and pneumatic metal tubing runs is to	
A) clear obstacles and	make turns in aircraft structure	es.	
<i>,</i> .	vithin aircraft structures.		
C) prevent excessive s	tress on the tubing.		
145.	D01G	AMG	
	statements is true regarding milloy and steel tubing of the san	inimum allowable bend radii for 1.5 inches ne size?	
A) The minimum radius	s for steel is greater than for all	uminum.	
B) The minimum radius	s for steel is less than for alumi	num.	
C) The minimum radius is the same for both steel and aluminum.			

· ·	d tube ends and standard AN n	luts, sleeves, and fittings?
,		
,		
C) AN-818-5.		
4.47	D040	4440
		AMG
		y tightened by turning the nut a specified
2. New MS flareless tu	bing/fittings should be assemb	led clean and dry without lubrication.
3. During installation, Note to the nut.	MS flareless fittings are normall	y tightened by applying a specified torque
A) 1.		
B) 1 and 2.		
C) 3.		
148.	D01G	AMG
A) the flaring operation	prior to assembly.	
B) the possibility of red process.	lucing the flare thickness by wi	ping or ironing during the tightening
C) wrench damage to	the tubing during the tightening	process.
149.	D01G	AMG
What is the color of an	AN steel flared tube fitting?	
A) Black.		
B) Blue.		
C) Red.		
150.	D01G	AMG
Which of the following	statements is/are correct in ref	erence to flare fittings?
1. AN fittings have an i	dentifying shoulder between th	e end of the threads and the flare cone.
2. AC and AN fittings a colors.	are considered identical except	for material composition and identifying
3. AN fittings are gene	rally interchangeable with AC f	ittings of compatible material composition
A) 1.	-	•
	assembled using flared A) AN-818-16. B) AN-818-8. C) AN-818-5. 147. Which statement(s) ab 1. During installation, Namount, rather than be 2. New MS flareless tu 3. During installation, Not the nut. A) 1. B) 1 and 2. C) 3. 148. In most aircraft hydrau are used when a tubing A) the flaring operation B) the possibility of reciprocess. C) wrench damage to a 149. What is the color of an A) Black. B) Blue. C) Red. 150. Which of the following 1. AN fittings have an in 2. AC and AN fittings accolors. 3. AN fittings are general	B) AN-818-8. C) AN-818-5. 147. D01G Which statement(s) about Military Standard (MS) flare 1. During installation, MS flareless fittings are normall amount, rather than being torqued. 2. New MS flareless tubing/fittings should be assemb 3. During installation, MS flareless fittings are normall to the nut. A) 1. B) 1 and 2. C) 3. 148. D01G In most aircraft hydraulic systems, two piece tube cor are used when a tubing flare is required. The use of t A) the flaring operation prior to assembly. B) the possibility of reducing the flare thickness by wip rocess. C) wrench damage to the tubing during the tightening 149. D01G What is the color of an AN steel flared tube fitting? A) Black. B) Blue. C) Red. 150. D01G Which of the following statements is/are correct in ref 1. AN fittings have an identifying shoulder between th 2. AC and AN fittings are considered identical except colors. 3. AN fittings are generally interchangeable with AC f

AMG

146.

B) 1 and 3.

D01G

C) 1, 2, and 3		
151.	D01G	AMG
A 3/8 inch air same system		nose as compared to 3/8 inch metal tubing used in the
A) have abou	t the same OD.	
B) have equiv	alent flow characteristics.	
C) usually ha	ve interchangeable applicat	ions.
152.	D01G	AMG
a high pressu	re (3,000 PSI) hydraulic sys	high strength, abrasion resistance) necessary for use in stem for operation of landing gear and flaps?
,	5052-0 aluminum alloy.	
,	resistant steel annealed or	
C) 1100-1/2H	or 3003-1/2H aluminum all	oy.
153.	D01G	AMG
		e compatible with phosphate-ester base hydraulic
fluids?	ioliowing nose materials are	compatible with phosphate-ester base hydraulic
1. Butyl.		
2. Teflon.		
3. Buna-N.		
4. Neoprene.		
A) 1 and 3.		
B) 1 and 2.		
C) 2 and 4.		
154.	D01G	AMG
		classified in size according to the
A) outside dia	-	plassified in size according to the
B) wall thickn		
C) inside dian		
O) Iliside diali	neter.	
155.	D01G	AMG
		ircraft require that a replacement oil line be fabricated by tubing. What is the inside dimension of this tubing?
A) 0.606 inch		79 tability. What is the inside differentiation of this tability:
B) 0.688 inch		
C) 0.750 inch		
O, 011 00 111011	•	

156.	D01G	AMG		
	When a Teflon hose has been in service for a time, what condition may have occurred and/or what precaution should be taken when it is temporarily removed from the aircraft?			
	nterior must be kept wet with /deterioration.	the fluid carried to prevent		
B) The hose r	may become stiff and brittle if	f not flexed or moved regularly.		
	may have developed a set, o orted to maintain its shape.	r have been manufactured with a pre-set shape, and		
157.	D01G	AMG		
A gas or fluid	line marked with the letters F	PHDAN is		
A) a dual-purp	oose pneumatic and/or hydra	ulic line for normal and emergency system use.		
B) used to ca	rry a hazardous substance.			
C) a pneumat	ic or hydraulic system drain o	or discharge line.		
158.	D01G	AMG		
	following defects are NOT ac			
vvilleri or the	ionowing delects are 1401 ac	ocptable for metal lines:		
1. Cracked fla	ire.			
2. Seams.				
3. Dents in the	e heel of a bend less than 20	percent of tube diameter.		
4. Scratches/r	nicks on the inside of a bend	less than 10 percent of wall thickness.		
5. Dents in st	raight sections that are 20 pe	ercent of wall thickness.		
A) 1, 2, 3, 4, a	and 5.			
B) 1, 2, and 3				
C) 1, 2, 3, and	d 5.			
450	D040	****		
159.	D01G	AMG		
	ing installation,			
	ht line runs are preferable.	institution will account it to a company and a later		
ŕ	·	ization will cause it to expand and shift.		
C) a tube may	y be pulled in line if the nut w	ill start on the threaded coupling.		
160.	D01G	AMG		
A certain amo pressure, it	ount of slack must be left in a	flexible hose during installation because, when under		
A) expands in	length and diameter.			
B) expands in	length and contracts in diam	neter.		
C) contracts in	n length and expands in diam	neter.		

161.	D01G	AMG		
Flexible lines must be	Flexible lines must be installed with			
A) enough slack to allo	ow maximum flexing during ope	ration.		
B) a slack of at least 1	0 to 12 percent of the length.			
C) a slack of 5 to 8 pe	rcent of the length.			
162.	D01G	AMG		
		a straight hose assembly is to be make such a connection should be		
A) 54-1/2 inches.				
B) 51-1/2 inches.				
C) 52-1/2 inches.				
163.	D01G	AMG		
		ols utilized on the identifying color-code		
	ly used on aircraft plumbing line			
A) Symbols are compo	osed of various single colors ac	cording to line content.		
B) Symbols are always	s black against a white backgro	und regardless of line content.		
C) Symbols are compo	osed of one to three contrasting	colors according to line content.		
164.	D01G	AMG		
weakened/damaged?	g nut is overtightened, where is	the tube most likely to be		
A) Along the entire len	gth of the sleeve and tube inter	face.		
B) At the edge of the s	sleeve and straight portion of the	e tube.		
C) At the sleeve and fl	are junction.			
165.	D01G	AMG		
Which statement is true regarding flattening of tubing in bends?				
A) Flattening by a maximum of 20 percent of the original diameter is permissable.				
B) Flattening by not more than 25 percent of the original diameter is permissable.				
C) The small diameter portion in the bend cannot exceed more than 75 percent of the diameter of straight tubing.				
166.	D01G	AMG		
A scratch or nick in aluminum tubing can be repaired provided it does not				
A) appear in the heel of a bend.				
B) appear on the inside of a bend.				

C) exceed 10 percent of the tube OD on a straight section.

167.	D01G	AMG	
Scratches or nicks on the straight portion of aluminum alloy tubing may be repaired if they are no deeper than			
A) 20 percent of	of the wall thickness.		
B) 1/32 inch or	20 percent of wall thickr	ess, whichever is less.	
C) 10 percent of	of the wall thickness.		
168.	D01G	AMG	
Hydraulic tubin necessary, mag		localized area to such an extent that repair is	
A) by cutting or	ut the damaged area and	utilizing a swaged tube fitting to join the tube ends.	
B) only by replace and material as		ion run (connection to connection) using the same size	
C) by cutting or	ut the damaged section a	and soldering in a replacement section of tubing.	
169.	D01G	AMG	
	nt concerning Bernoulli's		
, ,	·	points where the velocity of the fluid increases.	
		points where the velocity of the fluid increases.	
C) It applies on	lly to gases and vaporize	d liquids.	
170.	D01G	AMG	
The term "cold	flow" is generally associ	ated with	
A) the effects of	of low temperature gasse	s or liquids flowing in hose or tubing.	
, .	left in natural or syntheti		
C) flexibility cha	aracteristics of various he	ose materials at low ambient temperatures.	
171.	E04G	AMG	
Generally spea	king, bolt grip lengths sh	ould be	
A) one and one half times the thickness of the material which is fastened together.			
B) equal to the thickness of the material which is fastened together, plus approximately one diameter.			
C) equal to the thickness of the material which is fastened together.			
172.	E04G	AMG	
When the spec be found?	ific torque value for nuts	is not given, where can the recommended torque value	
A) AC 43.13-2	٦.		
B) Technical St	andard Order.		
C) AC 43.13-1E	3.		

173.	E04G	AMG		
•	gure 43.) Identify the clevis bolt	mustrated.		
A) 1.				
B) 3.				
C) 2.				
174.	E04G	AMG		
castle tension nut of	A particular component is attached to the aircraft structure by the use of an aircraft bolt and a castle tension nut combination. If the cotter pin hole does not align within the recommended torque range, the acceptable practice is to			
A) exceed the reco	mmended torque range by no m	nore than 10 percent.		
B) tighten below the	e torque range.			
C) change washers	and try again.			
175.	E04G	AMG		
A bolt with a single	raised dash on the head is clas	sified as an		
A) AN corrosion res	sistant steel bolt.			
B) NAS standard a	rcraft bolt.			
C) NAS close tolera	ance bolt.			
176.	E04G	AMG		
	egarding aircraft bolts is correct?			
A) When tightening castellated nuts on drilled bolts, if the cotter pin holes do not line up, it is permissible to tighten the nut up to 10 percent over recommended torque to permit alignment of the next slot with the cotter pin hole.				
B) In general, bolt	grip lengths should equal the ma	terial thickness.		
C) Alloy steel bolts	smaller than 1/4-inch diameter	should not be used in primary structure.		
177.	E04G	AMG		
Where is an AN cle	evis bolt used in an airplane?			
A) For tension and	shear load conditions.			
B) Where external tension loads are applied.				
C) Only for shear lo	oad applications.			
178.	E04G	AMG		
The core material of	of Alclad 2024-T4 is			
A) heat treated aluminum alloy, and the surface material is commercially pure aluminum.				
B) commercially pure aluminum, and the surface material is heat treated aluminum alloy.				
C) strain hardened aluminum alloy, and the surface material is commercially pure aluminum.				

179.	E04G	AMG		
The aluminum	code number 1100 identifie	es what type of aluminum?		
A) Aluminum a	A) Aluminum alloy containing 11 percent copper.			
B) Aluminum a	alloy containing zinc.			
C) 99 percent	commercially pure aluminur	n.		
180.	E04G	AMG		
In the four-digi	t aluminum index system nu	umber 2024, the first digit indicates		
A) the percent	of alloying metal added.			
•	of major alloying elements	used in the metal.		
C) the major a	Illoying element.			
181.	E04G	AMG		
	king feature of the fiber type			
	of an unthreaded fiber locki			
, -		he base of the load carrying section.		
C) By making	the threads in the fiber inse	rt slightly smaller than those in the load carrying		
section.				
400	F04C	AMC		
182.	E04G	AMG		
	s bolt used with a fork end o	but with no strain imposed on the fork and safetied		
with a cotter pi		, but with no strain imposed on the lork and saletied		
B) With a castl which it is bein		sinding occurs between the fork and the fitting to		
C) With a sheat of the bolt in the	•	n self locking nut tightened enough to prevent rotation		
183.	E04G	AMG		
	re usually manufactured with	h a		
A) class 1 fit fo				
B) class 2 fit fo				
C) class 3 fit fo	or the threads.			
184.	E04G	AMG		
Aircraft bolts w	vith a cross or asterisk mark	ed on the bolthead are		
A) made of alu	ıminum alloy.			
B) close tolera	ince bolts.			
C) standard st	eel bolts.			

185.	E04G	AMG
Unless otherw	vise specified, torque values	for tightening aircraft nuts and bolts relate to
A) clean, dry t	hreads.	
B) clean, light	ly oiled threads.	
C) both dry ar	nd lightly oiled threads.	
186.	E04G	AMG
Unless otherw	vise specified or required, ai	rcraft bolts should be installed so that the bolthead is
A) upward, or	in a forward direction.	
B) downward,	or in a forward direction.	
C) downward,	or in a rearward direction.	
187.	E04G	AMG
(Refer to Gen	eral figure 42.) Which of the	bolthead code markings shown identifies an AN
corrosion resi	stant steel bolt?	-
A) 1.		
B) 2.		
C) 3.		
188.	E04G	AMG
Alclad is a me	tal consisting of	
A) aluminum a	alloy surface layers and a pu	re aluminum core.
	num surface layers on an ali	•
C) a homoger	neous mixture of pure alumin	num and aluminum alloy.
189.	E04G	AMG
•	•	of aircraft engine firewalls?
A) Stainless s		
•	olybdenum alloy steel.	
C) titanium nic	ckel alloy.	
190.	E04G	AMG
		e used on an aircraft if the bolt is
A) under shea	_	o dood on an anotate ii ano bole to
B) under tensi	•	
C) subject to r	•	
2, 323,000 10 1		
191.	E06G	AMG
	rrect statement.	

•	eter is limited to measuring dia		
B) Tools used on certificated aircraft must be an approved type.C) Dividers do not provide a reading when used as a measuring device.			
C) Dividers do not pro	ovide a reading when used as a	n measuring device.	
192.	E06G	AMG	
(Refer to General figures) 0.2851. B) 0.2911. C) 0.2901.	ire 46.) The measurement read	ling on the illustrated micrometer is	
193.	E06G	AMG	
Which tool can be usedisk? A) Dial indicator. B) Shaft gauge. C) Protractor.	ed to measure the alignment of	a rotor shaft or the plane of rotation of a	
194.	E06G	AMG	
(Refer to General figures) 1.411 inches. B) 1.436 inches. C) 1.700 inches.	re 47.) What is the measureme	ent reading on the vernier caliper scale?	
195.	E06G	AMG	
The side clearances of piston rings are measured with a A) micrometer caliper gauge. B) thickness gauge. C) dial gauge.			
196.	E06G	AMG	
Which tool is used to surface being checker A) Depth gauge. B) Thickness gauge. C) Dial indicator.		n a surface plate and a relatively narrow	
197.	E06G	AMG	
Which number repres A) .00001. B) .001.	ents the vernier scale graduati	on of a micrometer?	

C) .0001.			
198.	E06G	AMG	
Which tool is u	sed to find the center of a	shaft or other cylindrical work?	
A) Combination		•	
B) Dial indicato			
C) Micrometer			
,	·		
199.	E06G	AMG	
(Refer to Gene	eral figure 48.) What does t	he micrometer read?	
A) .2974.			
B) .3004.			
C) .3108.			
200.	E06G	AMG	
	ry to accurately measure the nechanic should use a	ne diameter of a hole approximately 1/4 inch in	
	gauge and determine the softhe telescoping gauge.	size of the hole by taking a micrometer reading of the)
B) 0 to 1 inch i	nside micrometer and read	the measurement directly from the micrometer.	
C) small hole g ball end of the		ze of the hole by taking a micrometer reading of the	
201.	E06G	AMG	
(Refer to Gene	eral figure 49.) The measur	ement reading on the micrometer is	
A) .2758.			
B) .2702.			
C) .2792.			
202.	E06G	AMG	
What tool is ge	enerally used to set a divide	er to an exact dimension?	
A) Machinist so	cale.		
B) Surface gau	ge.		
C) Dial indicate	or.		
203.	E06G	AMG	
		measuring crankpin and main bearing journals for o	out
of round wear?	,		
A) Dial gauge.			
B) Micrometer	caliper.		

C) Depth gauge.		
204.The clearance betweenA) micrometer caliperB) thickness gauge.C) depth gauge.	E06G en the piston rings and the ring .	AMG lands is measured with a
205.	E06G	AMG
How can the dimension A) Depth gauge and rB) Thickness gauge aC) Telescopic gauge	and push fit arbor.	rocker arm be accomplished?
206.	E06G	AMG
		push fit arbors in both ends, supported by are taken between the arbor and the
207.	E06G	AMG
What may be used to A) Dial indicator. B) Micrometer. C) Telescoping gauge	check the stem on a poppet-typ	e valve for stretch?
208.	E06G	AMG
What tool is generallyA) Gauge block.B) Dial indicator.C) Machinist scale.	used to calibrate a micrometer	or check its accuracy?
209.	G01G	AMG
Caustic cleaning prod A) passive oxidation. B) improved corrosion C) corrosion.	lucts used on aluminum structur	res have the effect of producing

210.	G01G	AMG	
Which of the following are acceptable to use when utilizing chemical cleaning and/or depainting agents on aircraft?			
 Synthetic fiber wiping cloths when using a flammable agent. Cotton fiber wiping cloths when using a flammable agent. 			
3. Atomizing spray equ	ipment.		
A) 2 and 3			
B) 2. C) 1.			
211.	G01G	AMG	
	engine parts be cleaned?		
A) Soak in a 20 percen			
B) Spray with MEK (me	ercial solvent, decarbonize, and	ecrane or grit blact	
o) wash with a comme	iciai solvent, decarbonize, and	scrape or grit blast.	
212.	G01G	AMG	
When an anodized surf	ace coating is damaged in serv	ice, it can be partially restored by	
A) applying a thin coat	of zinc chromate primer.		
B) chemical surface tre	atment.		
C) use of a suitable mil	d cleaner.		
213.	G01G	AMG	
Nickel cadmium battery should be neutralized v		h have been affected by electrolyte	
A) boric acid.			
B) sodium bicarbonate.			
C) potassium hydroxide).		
214.	G01G	AMG	
A primary reason why ordinary or otherwise nonapproved cleaning compounds should not be used when washing aircraft is because their use can result in			
A) hydrogen embrittlem	ent in metal structures.		
, , ,	nent in nonmetallic materials.		
C) a general inability to	remove compound residues.		
215.	G01G	AMG	
Select the solvent used to clean acrylics and rubber.			
A) Aliphatic naphtha.			

B) Methyl ethy	vl ketone.	
C) Aromatic n	aphtha.	
040	0040	
216.	G01G	AMG
-		al cleaning because of the danger of
A) forming pas		
,	corrosive materials.	
C) Corrosion b	y imbedded iron oxide.	
217.	G01G	AMG
Select the solv	vent recommended for wipe	down of cleaned surfaces just before painting.
A) Aliphatic na	aphtha.	
B) Dry-cleanin	g solvent.	
C) Aromatic na	aptha.	
218.	G02G	AMG
	e materials is the most cath	
A) Zinc.	e materiais is the most cath	iodic:
B) 2024 alumi	num allov	
C) Stainless s	•	
O) Otalilicos s	ico.	
219.	G02G	AMG
Corrosion sho	uld be removed from magn	esium parts with a
A) silicon carb	ide brush.	
B) carborundu	ım abrasive.	
C) stiff, nonme	etallic brush.	
220.	G02G	AMG
	ollowing is an acceptable finnsparent plastic surface?	rst step procedure to help prevent scratching when
A) Gently wipe	e the surface with a clean, c	dry, soft cloth.
B) Flush the s	urface with clean water.	
C) Gently wipe water.	e the surface with a clean, s	soft cloth moistened with de-mineralized or distilled
221.	G02G	AMG
What should b	pe done to prevent rapid det	terioration when oil or grease come in contact with a
A) Wipe the ti	re thoroughly with a dry clot	h, and then rinse with clean water.
B) Wipe the ti	re with a dry cloth followed I	by a washdown and rinse with soap and water.
	-	•

C) Wipe the tire with a cloth dampened with aromatic naphtha and then wipe dry with a clean cloth.			
222.	G02G	AMG	
Of the following, when	and/or where is galvanic corrosi	ion is most likely to occur?	
A) When an electrolyte (water) covers the surface of an aluminum skin, seeps into the cracks between lap joints, and oxygen is excluded from the area.			
electrolyte.		oy inspection plate in the presence of an	
C) In an area of unprote exhaust gases, or indus		esphere containing battery fumes,	
223.	G02G	AMG	
Corrosion caused by ga	alvanic action is the result of		
A) excessive anodization			
B) contact between two	unlike metals.		
C) excessive etching.			
224.	G02G	AMG	
Which of these materia	Is is the most anodic?		
A) Cadmium.			
B) 7075-T6 aluminum a	alloy.		
C) Magnesium.			
225.	G02G	AMG	
Galvanic corrosion is like	kely to be most rapid and severe	e when	
A) the surface area of the cathodic metal is smaller than surface area of the anodic metal.			
B) the surface areas of the anodic and cathodic metals are approximately the same.			
C) the surface area of the anodic metal is smaller than the surface area of the cathodic metal.			
226.	G02G	AMG	
One way of obtaining in	ncreased resistance to stress co	rrosion cracking is by	
A) relieving compressive stresses (via heat treatment) on the metal surface.			
B) creating compressive	e stresses (via shot peening) or	the metal surface.	
C) producing nonuniform deformation while cold working during the manufacturing process.			
227.	G02G	AMG	
(1) In the corrosion process, it is the cathodic 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.	
228.	G02G	AMG
Spilled mercu	ıry on aluminum	
A) greatly inc	reases susceptibility to hydro	ogen embrittlement.
B) may cause	e impaired corrosion resistan	ce if left in prolonged contact.
C) causes rap	oid and severe corrosion that	is very difficult to control.
229.	G02G	AMG
The interior s by which of the		eel tubing would be best protected against corrosion
A) A coating	of linseed oil.	
B) Evacuating	g moisture from the tubing be	fore sealing.
C) Charging t	the tubing with dry nitrogen p	rior to sealing.
230.	G02G	AMG
What may be	used to remove corrosion fr	om highly stressed steel surfaces?
A) Steel wire	brushes.	
B) Fine grit al	luminum oxide.	
C) Medium g	rit carborundum paper.	
231.	G02G	AMG
The rust or co	orrosion that occurs with mos	t metals is the result of
A) a tendency	y for them to return to their na	atural state.
B) blocking the	ne flow of electrons in homog	enous metals, or between dissimilar metals.
C) electron flo	ow in or between metals from	cathodic to anodic areas.
232.	G02G	AMG
Fretting corro	sion is most likely to occur	
A) when two	surfaces fit tightly together be	ut can move relative to one another.
B) only when	two dissimilar metals are in	contact.
C) when two	surfaces fit loosely together	and can move relative to one another.
233.	G02G	AMG
Which of the	following are the desired effe	ects of using Alodine on aluminum alloy?
1. A slightly re	ough surface.	

2. Relieved surface stresses.			
3. A smooth painting surface.			
4. Increased corrosion resistance.			
A) 3 and 4.			
B) 1, 2, and 4.			
C) 1 and 4.			
234.	G02G	AMG	
Which of the listed con	ditions is NOT one of the requir	ements for corrosion to occur?	
A) The presence of an	electrolyte.		
B) Electrical contact be	etween an anodic area and a ca	thodic area.	
C) The presence of a p	passive oxide film.		
235.	G02G	AMG	
The lifting or flaking of	00=0	delamination of grain boundaries caused	
A) brinelling.			
B) granulation.			
C) exfoliation.			
236.	G02G	AMG	
A nonelectrolytic cheminal paint bonding qualities		ys to increase corrosion resistance and	
A) anodizing.			
B) alodizing.			
C) dichromating.			
237.	G02G	AMG	
Which of the following	are acceptable to use in cleanin	g anodized surfaces?	
1. Steel wool.			
2. Brass wire brush.3. Aluminum wool.			
Stainless steel wire beginning to the state of th	orush		
5. Fiber bristle brush.	ordon.		
A) 1, 3, and 5.			
B) 2 and 4.			
C) 3 and 5.			
	0.00		
238.	G02G	AMG	

Which of the following may not be detectable even by careful visual inspection of the surface of aluminum alloy parts or structures?			
A) Filiform corrosion.			
B) Intergranular corrosi	on.		
C) Uniform etch corrosi	on.		
239.	G02G	AMG	
For which of the following	ng reasons would a water breal	k test be conducted?	
A) To make certain that	t a newly alodized aluminum su	rface is sufficiently coated.	
B) To make certain that	t a bare metal surface is thorough	ghly clean.	
C) To make certain that bonding connection car		n sufficiently removed before an electrical	
240.	H02G	AMG	
	uel tank measures 27-1/2 inche nany gallons will the tank contai	s in length, 3/4 foot in width, and 8-1/4 n?	
(231 cu. in. = 1 gal.)			
A) 7.366			
B) 8.83			
C) 170.156			
241.			
241.	H02G	AMG	
	H02G te that will be equal in volume to		
Select the container siz			
Select the container size (7.5 gal = 1 cu ft)			
Select the container siz (7.5 gal = 1 cu ft) A) 540 cubic feet.			
Select the container size (7.5 gal = 1 cu ft) A) 540 cubic feet. B) 9.60 cubic feet.			
Select the container size (7.5 gal = 1 cu ft) A) 540 cubic feet. B) 9.60 cubic feet.			
Select the container size (7.5 gal = 1 cu ft) A) 540 cubic feet. B) 9.60 cubic feet. C) 6 cubic feet.	e that will be equal in volume to	2 72 gallons of fuel. AMG	
Select the container size (7.5 gal = 1 cu ft) A) 540 cubic feet. B) 9.60 cubic feet. C) 6 cubic feet.	te that will be equal in volume to	2 72 gallons of fuel. AMG	
Select the container size (7.5 gal = 1 cu ft) A) 540 cubic feet. B) 9.60 cubic feet. C) 6 cubic feet. 242. (Refer to General figure)	te that will be equal in volume to	2 72 gallons of fuel. AMG	
Select the container size (7.5 gal = 1 cu ft) A) 540 cubic feet. B) 9.60 cubic feet. C) 6 cubic feet. 242. (Refer to General figure A) 24 square feet.	te that will be equal in volume to	2 72 gallons of fuel. AMG	
Select the container size (7.5 gal = 1 cu ft) A) 540 cubic feet. B) 9.60 cubic feet. C) 6 cubic feet. 242. (Refer to General figure A) 24 square feet. B) 48 square feet. C) 10 square feet.	te that will be equal in volume to H02G e 56.) Compute the area of the	AMG trapezoid.	
Select the container size (7.5 gal = 1 cu ft) A) 540 cubic feet. B) 9.60 cubic feet. C) 6 cubic feet. 242. (Refer to General figure A) 24 square feet. B) 48 square feet. C) 10 square feet. 243.	te that will be equal in volume to H02G to 56.) Compute the area of the the H02G	AMG AMG	
Select the container size (7.5 gal = 1 cu ft) A) 540 cubic feet. B) 9.60 cubic feet. C) 6 cubic feet. 242. (Refer to General figure A) 24 square feet. B) 48 square feet. C) 10 square feet. 243. (Refer to General figure	te that will be equal in volume to H02G to 56.) Compute the area of the the H02G	AMG trapezoid.	
Select the container size (7.5 gal = 1 cu ft) A) 540 cubic feet. B) 9.60 cubic feet. C) 6 cubic feet. 242. (Refer to General figure A) 24 square feet. B) 48 square feet. C) 10 square feet. 243. (Refer to General figure A to B = 7.5 inches	te that will be equal in volume to H02G to 56.) Compute the area of the the H02G	AMG AMG	
Select the container size (7.5 gal = 1 cu ft) A) 540 cubic feet. B) 9.60 cubic feet. C) 6 cubic feet. 242. (Refer to General figure A) 24 square feet. B) 48 square feet. C) 10 square feet. 243. (Refer to General figure A to B = 7.5 inches A to D = 16.8 inches	te that will be equal in volume to H02G to 56.) Compute the area of the the H02G	AMG AMG	
Select the container size (7.5 gal = 1 cu ft) A) 540 cubic feet. B) 9.60 cubic feet. C) 6 cubic feet. 242. (Refer to General figure A) 24 square feet. B) 48 square feet. C) 10 square feet. 243. (Refer to General figure A to B = 7.5 inches	te that will be equal in volume to H02G to 56.) Compute the area of the the H02G	AMG AMG	

C) 126 square in	ches.	
244.	H02G	AMG
What is the pistor stroke of 4 inches		ster cylinder with a 1.5-inch diameter bore and a piston
A) 9.4247 cubic i	nches.	
B) 7.0686 cubic i	nches.	
C) 6.1541 cubic i	nches.	
245.	H02G	AMG
	s of fuel will be containe length, and 1 foot 8 incl	ed in a rectangular shaped tank which measures 2 feet hes in depth?
(7.5 gal = 1 cu ft)		
A) 50		
B) 75		
C) 81		
246.	H02G	AMG
the piston on bott	tom center, the top of the	der bore of 3.78 inches and is 8.5 inches deep. With e piston measures 4.0 inches from the bottom of the displacement of this engine?
A) 200 cubic inch	ies.	
B) 360 cubic inch	ies.	
C) 235 cubic inch	nes.	
247.	H02G	AMG
	aped fuel tank measures How many cubic inches	37-1/2 inches in length, 14 inches in width, and 8-1/4 are within the tank?
A) 59.75		
B) 433.125		
C) 4,331.25		
248.	H02G	AMG
	erted on the piston in a huid pressure is 850 PSI?	ydraulic cylinder if the area of the piston is 1.2 square
A) 1,020 pounds.	•	
B) 960 pounds.		
C) 850 pounds.		
249.	H02G	AMG
(Refer to Genera	I figure 55.) Find the are	a of the triangle shown

A) 12 square inchB) 6 square inchC) 15 square inch	es.	
250.	H02G	AMG
The total piston d	lisplacement of a specifi	c engine is
·	the compression ratio.	
B) the volume dis	splaced by all the pistons	s during one revolution of the crankshaft.
C) the total volum	ne of all the cylinders.	
251.	H02G	AMG
(Refer to General	I figure 54.) Compute the	e area of the trapezoid.
A) 52.5 square fe	eet.	
B) 60 square feet		
C) 76.5 square fe	eet.	
252.	H02G	AMG
_		bricate a cylinder 20 inches long and 8 inches in
diameter?	or metar is required to id	bridge a dylinder 20 mones long and 0 mones in
(Note: C = pi x D))	
A) 20 inches x 25	5-5/32 inches.	
B) 20 inches x 24	1-9/64 inches.	
C) 20 inches x 25	5-9/64 inches.	
253.	H02G	AMG
	gine with a bore of 3.5 in a total piston displaceme	aches, a cylinder height of 7 inches and a stroke of 4.5 ent of
A) 256.88 cubic i	nches.	
B) 259.77 cubic i	nches.	
C) 43.3 cubic incl	hes.	
254.	H02G	AMG
		of a sphere with a radius of 4.5 inches?
A) 47.71 cubic inc		or a optione with a radius of 4.0 molles:
B) 381.7 square i		
C) 381.7 cubic in		
	110.15	
255.	H01G	AMG
Find the square r	oot of 124.9924.	

A) 111.8 x 10 to the th	•		
B) .1118 x 10 to the negative second power.C) 1,118 x 10 to the negative second power.			
C) 1,110 x 10 to the fi	egative second power.		
256.	H01G	AMG	
The number 3.47 x 10	to the negative fourth power is	equal to	
A) .00347			
B) 34,700			
C) .000347			
257.	H01G	AMG	
	s using scientific notation?		
A) 1.	doing dolontine notation.		
B) 2.			
C) both 1 and 2.			
,			
258.	H01G	AMG	
Which of the following	is equal to the square root of (-	1776) ÷ (-2) – 632?	
A) 128.			
B) 256.			
C) 16.			
259.	H01G	AMG	
(Refer to the figure) S	olve the equation.		
A) 35,998.			
B) 36,002.			
C) 62,208.			
260.	H01G	AMG	
Find the square root of			
A) 61.00971.			
B) 61.00.			
C) 61.0097.			
261.	H01G	AMG	
		root of which of the following numbers?	
A) 9,406.	iost nearly equal to the square I	oot or which of the following numbers?	
B) 9,604.			
C) 9,801.			
-, -,			

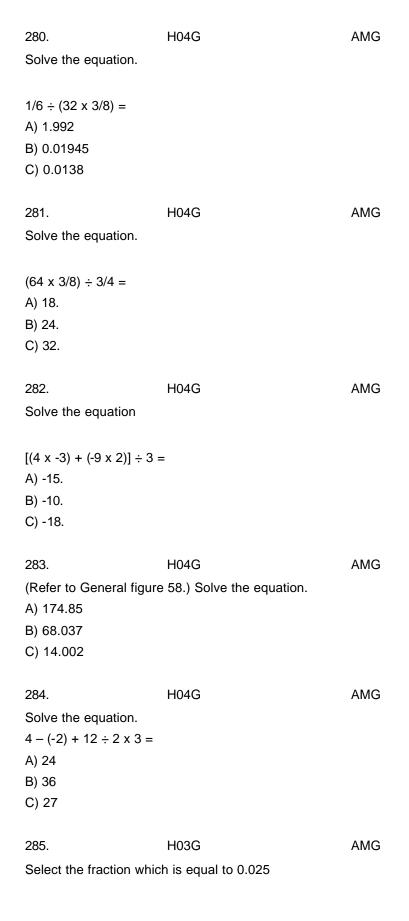
262.	H01G	AMG
Find the cube of 64.		
A) 4.		
B) 192.		
C) 262,144.		
0) 202, 144.		
263.	H01G	AMG
(Refer to the figure) So	lve the equation.	
A) 5.59		
B) .1680		
C) .0419		
,		
264.	H01G	AMG
What is the square roo	t of 4 raised to the fifth power?	
A) 32.		
B) 64.		
C) 20.		
265.	H01G	AMG
Which alternative answ	er in the figure is equal to 463,7	100?
A) 1.		
B) 2.		
C) 3.		
266.	H01G	AMG
What is the square roo	t of 16 raised to the fourth power	er?
A) 1,024.		
B) 4,096.		
C) 256.		
0, 200		
267.	H01G	AMG
The result of 7 raised to	o the third power plus the squar	e root of 36 is equal to
A) 343.		
B) 349.		
C) 361.		
268.	H01G	AMG
Find the square root of	1,824.	

A) 42.708 x 10 to the negative second power.B) .42708 x 10.			
C) .42708 x 10 to the s	econd power.		
269.	H01G	AMG	
A) 0.000001 B) 0.0000010 C) 0.0000001	ised to the negative sixth power		
270.	H01G	AMG	
What power of 10 is ed A) 10 to the sixth power B) 10 to the tenth power C) 10 to the ninth power	r. er.		
271. (Refer to the figure) So A) 12. B) 60. C) 76.	H01G live the equation.	AMG	
272. Which of the following A) $31(2) + 7 + (-3.5 \times 2)$ B) $480(4) + (-4) - (-3 \times 2)$ C) $960 \times 4 - (-2) + 2 = -2$		AMG 44?	
273. What is the ratio of a g A) 5:7 B) 2:3 C) 5:42	H04G asoline fuel load of 200 gallons	AMG to one of 1,680 pounds?	
274. (Refer to General figure A) 11.9 B) 11.7 C) 11.09	H04G e 60.) Solve the equation.	AMG	

275. H04G AMG Solve the equation. $(-3 + 2)(-12 - 4) + (-4 + 6) \times 3 =$ A) 20. B) 22. C) 28. 276. AMG H04G Solve the equation. -6[-9(-8+4) - 2(7 + 2)] = A) -332. B) -96. C) -108. 277. AMG H04G Solve the equation. 4 - 3[-6(2+3) + 4] =A) 82. B) -25. C) -71. 278. H04G AMG (Refer to General figure 59.) Solve the equation. A) +31.25 B) -5.20 C) -31.25 279. H04G AMG Solve the equation.

1/2 (-30 + 34) 5 =

A) 10.B) 95.C) 160.



B) 1/40			
C) 1/400			
286.	H03G	AMG	
		bottom center is 84 cubic inches and the piston	
•	cubic inches, then the co	ompression ratio is	
A) 7:1			
B) 1.2:1 C) 6:1			
0) 0.1			
287.	H03G	AMG	
Express 7/8 as a per	rcent.		
A) 8.75 percent.			
B) .875 percent.			
C) 87.5 percent.			
288.	H03G	AMG	
What is the speed of RPM?	f a spur gear with 42 tee	eth driven by a pinion gear with 14 teeth turning 42	0
A) 196 RPM.			
B) 160 RPM.			
C) 140 RPM.			
289.	H03G	AMG	
	t has an overall length on length of 5/8 inch. W	of 1-1/2 inches, with a shank length of 1-3/16 inche	s,
A) .5625 inch.	on length of 5/6 men. w	mat is the grip length:	
B) .8750 inch.			
C) .3125 inch.			
c) 10 1 <u>2</u> 0			
290.	H03G	AMG	
Select the fractional	equivalent of 0.078125		
A) 3/32			
B) 1/16			
C) 5/64			
291.	H03G	AMG	
An engine develops developed at 65 pero A) 81.		percent power. What horsepower would be	
,			

A) 1/4

C) 61.		
0) 01.		
292. 1.296875 is equal to A) 83/64 B) 19/16 C) 39/32	H03G	AMG
293.	H03G	AMG
Select the decimal w A) 1.0231 B) 1.83117 C) 1.2031	which is most nearly equal to 77/0	54
294.	H03G	AMG
Express 5/8 as a pe A) .625 percent. B) 6.25 percent. C) 62.5 percent.	rcent.	
295.		
۷۵۵.	H03G	AMG
	dstance of 750 miles used 60 ga	AMG allons of gasoline. How many gallons will it
An airplane flying a need to travel 2,500 A) 200. B) 31,250.	dstance of 750 miles used 60 ga	
An airplane flying a need to travel 2,500 A) 200. B) 31,250. C) 9,375.	dstance of 750 miles used 60 gamiles? H03G 4 teeth is driving a spur gear with	allons of gasoline. How many gallons will it
An airplane flying a need to travel 2,500 A) 200. B) 31,250. C) 9,375. 296. A pinion gear with 14 speed of the pinion galaxies A) 588 RPM. B) 420 RPM.	dstance of 750 miles used 60 gamiles? H03G 4 teeth is driving a spur gear with	allons of gasoline. How many gallons will it
An airplane flying a need to travel 2,500 A) 200. B) 31,250. C) 9,375. 296. A pinion gear with 14 speed of the pinion gear with 14 speed of the pinion gear with 15 to 15 to 126 RPM. C) 126 RPM.	dstance of 750 miles used 60 gamiles? H03G 4 teeth is driving a spur gear with gear.	AMG 1 42 teeth at 140 RPM. Determine the

A) 14.6 amperes.		
B) 12.4 amperes.		
C) 14.3 amperes.		
298.	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.		
299.	H03G	AMG
An engine of 98 horse being developed?	power maximum is running at 7	5 percent power. What is the horsepower
A) 81.00		
B) 76.50		
C) 73.50		
300.	H03G	AMG
Select the fraction whi	ch is most nearly equal to 0.203	312.
A) 11/64.		
B) 13/64.		
C) 7/32.		
301.	H03G	AMG
Sixty-five is what perc	ent of eighty?	
A) 81 percent.		
B) 65 percent.		
C) 52 percent.		
302.	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		
000	11000	
303.	H03G	AMG
		ly, 15 of these parts were removed from What percent of the maximum part life has
A) 75.9 percent.		

B) 76.9 percent.		
C) 75.0 percent.		
304.	H03G	AMG
What is the ratio	of 10 feet to 30 inches?	
A) 4:1		
B) 1:3		
C) 3:1		
005	11000	4440
305.	H03G	AMG
	s most nearly equal to a	bend radius of 29/64?
A) 0.4613		
B) 0.4844		
C) 0.4531		
306.	H03G	AMG
What is the spee	ed ratio of an input gear v	with 36 teeth meshed to a gear with 20 teeth?
A) 9:5		·
B) 1:0.56		
C) 1:1.8		
307.	102G	AMG
	c holding an airframe and quired before the aircraft	d powerplant rating completes a 100-hour inspection, t is returned to service?
A) Make the pro	per entries in the aircraft'	s maintenance record.
B) An operationa	al check of all systems.	
C) A mechanic v	vith an inspection authori	ization must approve the inspection.
200	1000	AMC
308.	102G	AMG
aircraft?	appropriate action(s) con	cerning minor repairs performed on a certificated
1. FAA Form 337	7's must be completed.	
2. Entries must b	be made in the aircraft's i	maintenance record.
3. The owner of annually.	the aircraft must submit	a record of all minor repairs to the FAA at least
A) 1 and 2.		
B) 2.		
C) 2 and 3.		

309.	102G	AMG
•	•	aft engine that is to be returned to service, an FAA Form required and what is the disposition of the completed
A) Two; one cop	y for the aircraft owner	and one copy for the FAA.
B) Two; one cop or individual.	y for the FAA and one o	copy for the permanent records of the repairing agency
,	opy for the aircraft ownerds of the repairing ager	r, one copy for the FAA, and one copy for the ncy or individual.
310.	102G	AMG
Who is responsi	ble for upkeep of the re	quired maintenance records for an aircraft?
A) The maintain	ing repair station or auth	norized inspector.
B) The maintain	ing certificated mechani	C.
C) The aircraft o	wner.	
311.	102G	AMG
		o service after an annual inspection and the owner ntenance base. Which statement is correct?
A) The owner m	ust obtain a special fligh	nt permit.
B) The aircraft mase.	nay be flown without res	triction up to 10 hours to reach another maintenance
C) The aircraft b	ecomes a restricted cate	egory type until it is approved for return to service.
312.	102G	AMG
An FAA Form 33	37 is used to record and	document
A) preventive an	d unscheduled mainten	ance, and special inspections.
B) major and mi	nor repairs, and major a	and minor alterations.
C) major repairs	and major alterations.	
313.	I02G	AMG
	owing may a certificated return to service?	d airframe and powerplant mechanic perform on aircraft
1. a 100-hour ins	spection.	
2. an annual ins	pection, under specified	circumstances.
3. a progressive	inspection, under speci	fied circumstances.
A) 1, 3.		
B) 1, 2.		
C) 1, 2, 3.		
314.	102G	AMG

When approving for return to service after maintenance or alteration, the approving person must enter in the maintenance record of the aircraft

- A) the date the maintenance or alteration was begun, a description (or reference to acceptable data) of work performed, the name of the person performing the work (if someone else), signature, and certificate number.
- B) a description (or reference to acceptable data) of work performed, date of completion, the name of the person performing the work (if someone else), signature, and certificate number.
- C) a description (or reference to acceptable data) of work performed, date of completion, the name of the person performing the work (if someone else), signature, certificate number, and kind of certificate held.

315. I02G AMG

An aircraft owner was provided a list of discrepancies on an aircraft that was not approved for return to service after an annual inspection. Which of the following statements is/are true concerning who may correct the discrepancies?

- 1. Only a mechanic with an inspection authorization.
- 2. An appropriately rated mechanic.
- 3. Any certificated repair station.
- A) 1.
- B) 2.
- C) 2 & 3.

316. I02G AMG

Who is responsible for making the entry in the maintenance records after an annual, 100-hour, or progressive inspection?

- A) The owner or operator of the aircraft.
- B) The person approving or disapproving for return to service.
- C) The designee or inspector representing the FAA Administrator.

317. I02G AMG

For aircraft operated under part 91, which of the following records must be retained for at least one year, or until the work is repeated or superseded?

- A) Records of time since overhaul of items requiring overhaul on a time specified basis.
- B) Records of maintenance, alterations, preventive maintenance, 100-hour, annual, and progressive inspections.
- C) Records of the current inspection status of the aircraft, including time since last required inspection.

318. I02G AMG

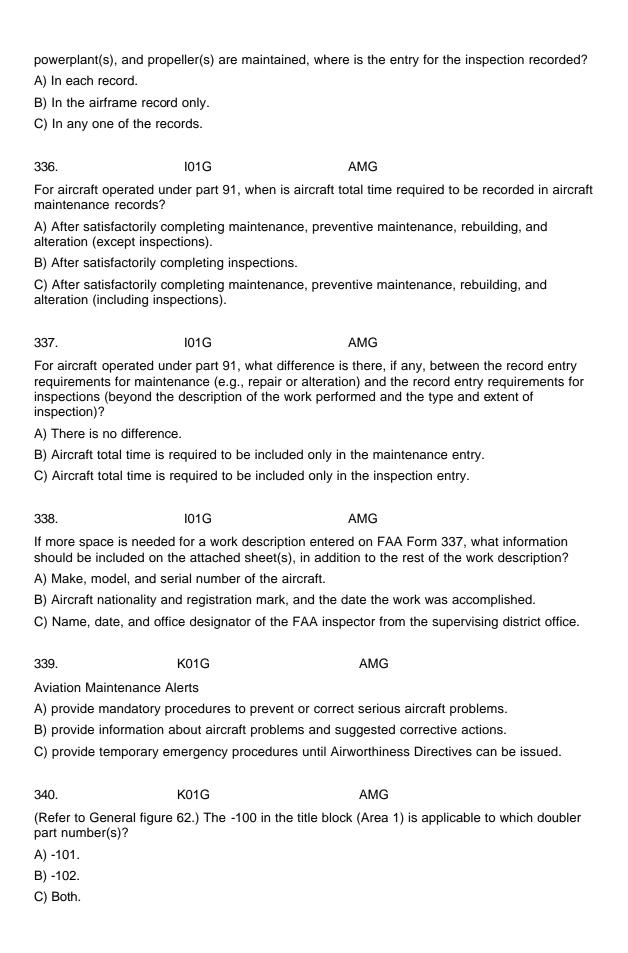
For aircraft operated under part 91, which of the following records must be retained and transferred with the aircraft when it is sold?

A) Records of maintenance, alterations, preventive maintenance, 100-hour, annual, and

progressive insp	pections.	
B) Records of ir	nspections performed in ac	cordance with 14 CFR part 43, Appendix D.
C) Records of the are next due.	ne current status of applica	able AD's, and date and time when recurring AD's
319.	102G	AMG
When a discrep completed, it sa		aircraft owner or operator after an inspection is
A) the item insp	ected is unairworthy.	
B) except for the	ese discrepancies, the iten	n inspected is airworthy.
C) the item insp	ected may or may not be a	airworthy depending on the discrepancies found.
320.	102G	AMG
In order to recorestablish?	nstruct lost or destroyed ai	rcraft maintenance records, what is it necessary to
A) Dates of all r	naintenance, preventive m	aintenance, and alterations.
B) Dates and/or	times of all 100-hour, ann	ual, or progressive inspections.
C) Total time-in-	-service of the airframe.	
321.	102G	AMG
When work is perpare the form		t necessitates the use of FAA Form 337, who should
A) The person v	who performs or supervises	s the work.
B) The person v	who approves for return to	service.
C) Either the pe	rson who approves for retu	urn to service, or the aircraft owner or operator.
322.	102G	AMG
What is the stat service?	us of data used as a basis	for approving major repairs or alterations for return to
A) Data must be	e least FAA-acceptable wh	en it is used for that purpose.
B) Data must be	e FAA-approved prior to its	use for that purpose.
C) Data may be	FAA-approved after its us	e for that purpose.
323.	101G	AMG
Which is an app	oliance major repair?	
A) Overhaul of a	a hydraulic pressure pump.	•
B) Repairs to a	propeller governor or its co	ontrol.
C) Troubleshoo	ting and repairing broken o	circuits in landing light circuits.
324.	101G	AMG
What is the mea	ans by which the FAA notif	fies aircraft owners and other interested persons of

unsafe conditions and properated? A) Airworthiness Directive B) Aviation Maintenance C) Aviation Safety Data.	ves. e Alerts.	r which the product may continue to be	
o, maion carety bata.			
325.	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	e or alterations performed constitutes erformed. erformed referencing approved	
326.	I01G	AMG	
Which maintenance acti	on is an airframe major repa	ir?	
A) Changes to the wing characteristics.	or to fixed or movable control	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.	
327.	I01G	AMG	
	compliance with Airworthines ted?	ss Directives or manufacturers' service	
328.	I01G	AMG	
During an annual inspect person disapproving mu A) void the aircraft's Airv B) submit a Malfunction	etion, if a defect is found which st worthiness Certificate.	ch makes the aircraft unairworthy, the	
329.	I01G	AMG	
Where should you find the		AWO	
'Removed right wing from 49 inches from tip in acc 28-1.'	m aircraft and removed skin cordance with figure 8 in the	from outer 6 feet. Repaired buckled spar manufacturer's structural repair manual No.	
A) Aircraft engine maintenance record. B) Aircraft minor repair and alteration record.			
D, Amoraic minor repair a	and antoration rootia.		

C) FAA Form 3	37.	
330.	I01G	AMG
Which aircraft r		scription of the replacement of several damaged he
		were replaced. The damaged inserts were extracted installed, and tangs removed.
B) Eight 1/4 - 2	0 inch standard heli-coils	were installed in place of damaged ones.
		serts were repaired by replacing the damaged inserts were checked for corrosion.
331.	I01G	AMG
		scribes the action taken for a control cable showing alof 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	itioned, worn area moved	away from fairlead.
332.	I01G	AMG
	ance record entry best de of 1/2-inch aluminum allo	scribes the action taken for a .125-inch deep dent in y tubing?
A) Dent within a	acceptable limits, repair no	ot 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°.
333.	I01G	AMG
Which aircraft rat a cluster?	ecord entry best describes	s a repair of a dent in a tubular steel structure dente
A) Removed ar	nd replaced the damaged i	member.
B) Welded a re	inforcing plate over the de	nted area.
C) Filled the da	maged area with a molten	metal and dressed to the original contour.
334.	I01G	AMG
Which stateme	nt is true regarding the red	quirements for maintenance record format?
	•	uity and includes the required information may be
B) The format p	provided by the manufactu	rer of the aircraft must be retained.
C) Any desired Aviation Admin	_	er provided format requires approval from the Feder
335.	I01G	AMG
		d, if separate maintenance records for the airframe,



341.	K01G	AMG
however, the v		rm major alterations on U.S. certificated aircraft; dance with FAA approved technical data before the is NOT approved data?
A) Airworthine	ss Directives.	
B) AC 43.13-2	A.	
C) Supplemen	tal Type Certificates.	
342.	K01G	AMG
What is the man		nsibility of the person who complies with an
A) Advise the	aircraft owner/operator of th	e work performed.
B) Make an er	ntry in the maintenance reco	ord of that equipment.
C) Advise the	FAA district office of the wo	rk performed, by submitting an FAA Form 337.
343.	K01G	AMG
	rer's data and FAA publicat and advisory circulars are a	ons such as Airworthiness Directives, Type Certificate I approved data.
	a Sheets, and Aircraft Spec	andard Orders, Airworthiness Directives, Type ifications and Supplemental Type Certificates are all
A) both No. 1	and No. 2 are true.	
B) only No. 1 i	s true.	
C) only No. 2 i	s true.	
344.	K01G	AMG
The Air Transp	oort Association of America	(ATA) Specification No. 100
(1) establishes	s a standard for the present	ation of technical data in maintenance manuals.
` '	aircraft into numbered syst	ems and subsystems in order to simplify locating
Regarding the	above statements,	
A) both No. 1	and No. 2 are true.	

- B) neither No. 1 nor No. 2 is true.
- C) only No. 1 is true.

K01G AMG 345.

(Refer to General figure 62, 62A & 62B, as necessary.) Using only the information given (when bend allowance, set back, etc. have been calculated) which doubler is it possible to construct and install?

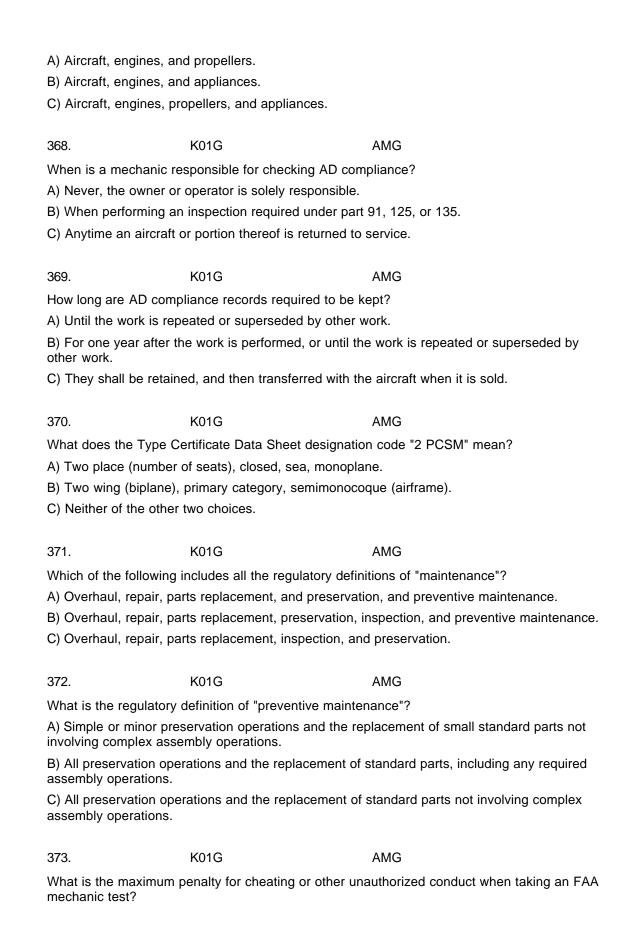
- A) -101.
- B) -102.

346.	K01G	AMG
(1) Propellers	are NOT included in the Air	worthiness Directive system.
	ed powerplant mechanic maturn to service.	ay make a minor repair on an aluminum propeller and
-	above statements,	
A) only No. 2 i		
,	and No. 2 are true.	
C) neither No.	1 nor No. 2 is true.	
347.	K01G	AMG
		be issued to more than one applicant for the same shows compliance with the applicable airworthiness
		d in accordance with the Technical Standard Order stallation in a particular aircraft.
Regarding the	above statements,	
A) both No. 1	and No. 2 are true.	
B) neither No.	1 nor No. 2 is true.	
C) only No. 1	is true.	
348.	K01G	AMG
•	eral figure 62, 62A, & 62B apre installation?	s necessary.) Which doubler(s) require(s) heat
B) -102.		
C) Both.		
349.	K01G	AMG
Which regulat category?	ion provides the airworthine	ss standards for an airplane certificated in the norma
A) 14 CFR Pa	rt 27.	
B) 14 CFR Pa	rt 25.	
C) 14 CFR Pa	rt 23.	
350.	K01G	AMG
	al Aviation Regulations requ Type Certificate.	ire approval after compliance with the data of a
		d in accordance with the Technical Standard Order stallation in a particular aircraft.

C) only No. 1	is true.	
351.	K01G	AMG
Technical info		nodels, of which no more than 50 remain in servi
A) Aircraft Lis	ting.	
B) Summary	of Deleted and Discontinued	Aircraft Specifications.
C) Index of A	ntique Aircraft.	
352.	K01G	AMG
What informa Sheets?	tion is generally contained in	Aircraft Specifications or Type Certificate Data
A) Empty wei	ght of the aircraft.	
B) Useful load	d of aircraft.	
C) Control su	rface movements.	
353.	K01G	AMG
		del manufactured under a type certificate, of whic t Registry, can be found in the
A) Aircraft Lis	iting.	
B) Summary	of Discontinued Aircraft Spec	ifications.
C) FAA Statis	stical Handbook of Civil Aircra	ft Specifications.
354.	K01G	AMG
The issuance	of an Airworthiness Certificat	te is governed by
A) 14 CFR Pa	art 23.	
B) 14 CFR Pa	art 21.	
C) 14 CFR Pa	art 39.	
355.	K01G	AMG
When an airw	vorthy (at the time of sale) air	craft is sold, the Airworthiness Certificate
A) becomes i	nvalid until the aircraft is reins	spected and approved for return to service.
B) is voided a	and a new certificate is issued	upon application by the new owner.
C) is transfer	red with the aircraft.	
	V04C	AMG
356.	K01G	AWO

B) control surfa	ace adjustment points.	
C) location of t	he datum.	
357.	K01G	AMG
Placards requir	ed on an aircraft are specif	ied in
A) AC 43.13-11	3.	
B) the Federal	Aviation Regulations under	which the aircraft was type certificated.
C) Aircraft Spe	cifications or Type Certifica	te Data Sheets.
358.	K01G	AMG
Primary respon	sibility for compliance with	Airworthiness Directives lies with the
A) certificated i	mechanic who maintains the	e aircraft.
B) certificated inspections.	mechanic holding an Inspec	ction Authorization who conducts appropriate
C) aircraft own	er or operator.	
359.	K01G	AMG
	se of a specific propeller wi reference to what informati	th a particular engine airplane combination can be onal source?
A) Propeller Sp	pecifications or Propeller Ty	pe Certificate Data Sheet.
B) Aircraft Spe	cifications or Aircraft Type (Certificate Data Sheet.
C) Alphabetica Listings.	I Index of Current Propeller	Type Certificate Data Sheets, Specifications, and
360.	K01G	AMG
Airworthiness [Directives are issued primar	ily to
A) provide info	rmation about malfunction of	or defect trends.
B) present reco	ommended maintenance pro	ocedures for correcting potentially hazardous defects.
C) correct an u	nsafe condition.	
361.	K01G	AMG
Where are tech	nnical descriptions of certific	ated propellers found?
A) Applicable A	Airworthiness Directives.	
B) Aircraft Spe	cifications.	
C) Propeller Ty	pe Certificate Data Sheets.	
362.	K01G	AMG
Which of the fo type design?	llowing are sometimes used	d as authorization to deviate from an aircraft's original
1. FAA Form 3	37.	
2. Supplementa	al Type Certificate.	

3. Airworthiness Direct	tive.	
4. Technical Standard	Order.	
A) 1, 2, 3, and 4.		
B) 1, 2, and 4.		
C) 1, 2, and 3.		
363.	K01G	AMG
-		y.) How many parts will need to be
•	hanic in the construction and ir	nstallation of one doubler?
A) 2.		
B) 3.		
C) 4.		
364.	K01G	AMG
		statement in an AD? "Required within the
		of this AD, unless already accomplished."
A) Amendment.		
B) Compliance.		
C) Applicability.		
365.	K01G	AMG
The action required by	y an AD may take what form?	
1. Inspection.		
2. Part(s) replacement	t.	
3. Design modification	1.	
4. Change in operating	g procedure(s).	
5. Overall change in the	he content, form and dispositio	n of aircraft maintenance records.
A) 1, 2, 3, and/or 4.		
B) 1, 2, 3, and/or 5.		
C) 1, 2, 3, 4, and/or 5.		
366.	K01G	AMG
(serial numbers 36216	6 through 36769) that have not	statement in an AD? "Model 172 airplanes been modified with Cessna Service Kit
A) Amendment.	-10A, certificated in any catego	лу.
B) Compliance.		
C) Applicability.		
367.	K01G	AMG
Type Certificate Data	Sheets are issued for which of	the following products?



- A) Ineligibility to receive any certificate or rating for one year.
- B) Ineligibility to receive any certificate or rating for one year, and suspension or revocation of any certificate held.
- C) Ineligibility to receive any certificate or rating for one year, and suspension of any certificate held.

374. K02G AMG

(Refer to General figure 63.) An aircraft has a total time in service of 468 hours. The Airworthiness Directive given was initially complied with at 454 hours in service. How many additional hours in service may be accumulated before the Airworthiness Directive must again be complied with?

- A) 46.
- B) 200.
- C) 186.

375. K02G AMG

A complete detailed inspection and adjustment of the valve mechanism will be made at the first 25 hours after the engine has been placed in service. Subsequent inspections of the valve mechanism will be made each second 50-hour period.

From the above statement, at what intervals will valve mechanism inspections be performed?

- A) 100 hours.
- B) 50 hours.
- C) 125 hours.

376. K02G AMG

Check thrust bearing nuts for tightness on new or newly overhauled engines at the first 50-hour inspection following installation. Subsequent inspections on thrust bearing nuts will be made at each third 50-hour inspection.

From the above statement, at what intervals should you check the thrust bearing nut for tightness?

- A) 150 hours.
- B) 200 hours.
- C) 250 hours.

377. K02G AMG

The following is a table of airspeed limits as given in an FAA issued aircraft specification:

Normal operating speed 260 knots

Never exceed speed 293 knots

Maximum landing gear operation speed 174 knots

Maximum flap extended speed 139 knots

The high end of the white arc on the airspeed instrument would be at

A) 260 knots.

B) 293 knots.C) 139 knots.		
C) 139 KHOIS.		
378.	L01G	AMG
A certificated n	nechanic with a powerplant	rating may perform the
	ection required by the Federection required by the Federection	eral Aviation Regulations on a powerplant or any rn the same to service.
,	spection required by the Fe reof and approve and retur	ederal Aviation Regulations on a powerplant or any rn the same to service.
		ederal Aviation Regulations on an airframe, eof and approve and return the same to service.
379.	L01G	AMG
Who has the a	uthority to approve for retur	rn to service a propeller after a 100-hour inspection
1. A mechanic	with a powerplant rating.	
2. Any certifica	ted repairman.	
	cated mechanic working un owerplant ratings.	nder the supervision of a certificated mechanic with
A) 1.		
B) 1 and 3.		
C) 2.		
380.	L01G	AMG
•	ing under the supervision on ng is not authorized to perf	of a certificated mechanic with an airframe and form
A) repair of a w	ving brace strut by welding.	
B) a 100-hour i	nspection.	
C) repair of an	engine mount by riveting.	
381.	L01G	AMG
		dards for protrusion of bolts, studs, and screws
Which of these through self-loo	oking nato:	
	-	
through self-loo A) AC 43.13-2.	-	ate Data Sheets.
through self-loo A) AC 43.13-2.	cifications or Type Certifica	ate Data Sheets.
through self-loo A) AC 43.13-2. B) Aircraft Spe	cifications or Type Certifica	ate Data Sheets.
through self-loo A) AC 43.13-2. B) Aircraft Spe C) AC 43.13-11 382. Who is respons	cifications or Type Certifica B. L01G	AMG naterials used in aircraft maintenance and repair are

383.	L01G	AMG
• •		e rating may perform a minor repair to an airspeed ry tools and equipment available.
	d mechanics with a powerpla	ant rating may perform a major repair to a propeller nd equipment available.
Regarding the	e above statements,	
A) only No. 1	is true.	
B) neither No.	1 nor No. 2 is true.	
C) only No. 2	is true.	
384.	L01G	AMG
within the pre		the privileges of the certificate and rating unless, nistrator has found that the certificate holder is able
A) served as	a mechanic under the certific	cate and rating for at least 18 months.
B) served as	a mechanic under the certific	cate and rating for at least 12 months.
C) served as	a mechanic under the certific	cate and rating for at least 6 months.
385.	L01G	AMG
Instrument re	pairs may be performed	
A) by the inst	rument manufacturer only.	
B) by an FAA	-approved instrument repair	station.
C) on airframe	e instruments by mechanics	with an airframe rating.
	L01G	AMG
386.		ions prescribes the requirements for issuing mecha
What part of t		e general operating rules for the holders of these
What part of t certificates ar certificates ar	nd ratings?	e general operating rules for the holders of these
What part of t	nd ratings? art 43.	e general operating rules for the holders of these
What part of to certificates and certificates and A) 14 CFR Part B) 14 CFR Part B) 14 CFR Part Part Part Part Part Part Part Part	nd ratings? art 43. art 91.	e general operating rules for the holders of these
What part of t certificates ar certificates ar A) 14 CFR Pa	nd ratings? art 43. art 91.	AMG

388.	L01G	AMG					
The replacement of a damaged vertical stabilizer with a new identical stabilizer purchased from the aircraft manufacturer is considered a							
A) minor altera	ation.						
B) major repair	B) major repair.						
C) minor repair	r.						
389.	L01G	AMG					
Certificated me	echanics, under their gener	al certificate privileges, may					
	nor repairs to instruments.						
, .)-hour inspection of instrun						
C) perform mir	nor alterations to instrumen	ts.					
390.	L01G	AMG					
	inspection required by Fedire may be performed by	eral Aviation Regulations for certain aircraft being					
	A) persons working under the supervision of an appropriately rated mechanic, but the aircraft must be approved by the mechanic for return to service.						
B) appropriate	ly rated mechanics only if t	hey have an inspection authorization.					
C) appropriate	ly rated mechanics and ap	proved by them for return to service.					
391.	L01G	AMG					
A repair, as pe	erformed on an airframe, sh	all mean					
A) the upkeep	and preservation of the air	frame including the component parts thereof.					
B) the restorat	ion of the airframe to a con	dition for safe operation after damage or deterioration.					
	C) simple or minor preservation operations and the replacement of small standard parts not involving complex assembly operations.						
392.	L01G	AMG					
Certificated me	echanics with a powerplant	rating may perform					
A) any inspection required by the Federal Aviation Regulations on a powerplant or propeller or any component thereof, and may release the same to service.							
B) 100-hour and/or annual inspections required by the Federal Aviation Regulations on powerplants, propellers, or any components thereof, and may release the same to service.							
C) 100-hour inspections required by the Federal Aviation Regulations on powerplants, propellers, or any components thereof, and may release the same to service.							
393.	L01G	AMG					
An Airworthine	An Airworthiness Directive requires that a propeller be altered. Certificated mechanics could						
A) perform and approve the work for return to service if it is a minor alteration.							
B) not perform	the work because it is an a	alteration.					

C) not perform the work because they are not allowed to perform and approve for return to service, repairs or alterations to propellers.				
394.	L01G	AMG		
FAA certificated mecha	nics may			
A) approve for return to	service a major repair for which	ch they are rated.		
B) supervise and appro-	ve a 100-hour inspection.			
C) approve for return to service a minor alteration they have performed appropriate to the rating(s) they hold.				
395.	L01G	AMG		
Under Title 14 of the Code of Federal Regulations, what is the maximum penalty for falsification, alteration, or fraudulent reproduction of certificates, logbooks, reports, and records?				
A) Ineligibility to receive	any certificate or rating for one	e year.		
B) Imprisonment for one	e year and a \$5,000.00 fine.			
C) Suspension or revoc	ation of any certificate held.			
396.	L01G	AMG		
What is the normal duration a mechanic certificate with airframe and/or powerplant ratings? A) Until the holder is relieved of duties for which the holder was employed and certificated.				
B) Until surrendered, su	•	the missile and of the continues		
C) Until 24 months after	the holder has last exercised	the privileges of the certificate.		
397.	L01G	AMG		
Why is a mechanic app required tests?	Why is a mechanic applicant issued a temporary certificate after successful completion of the required tests?			
A) To allow for review of	of his/her application and suppl	ementary documents.		
B) So that a background	d check/investigation may be c	completed.		
C) Both of the other two	choices.			
398.	L01G	AMG		
	luration of a temporary airman			
A) 60 days.	and an an an anniperary annual.			
B) 90 days.				
C) 120 days.				
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399.	L01G	AMG		
When may an otherwise qualified mechanic who does not read, write, speak, and understand the English language be eligible to apply for a mechanic certificate?				
A) When a special authorization has been issued by the supervising FAA Flight Standards				

District Office.

- B) When employed outside the United States by a U.S. air carrier.
- C) When employed outside the United States.

400. L01G AMG

Which of the following statements is true for a certificated and appropriately rated mechanic regarding repairs and alterations?

- A) He/she may perform an airframe major repair or major alteration, but cannot approve the work for return to service.
- B) He/she may perform airframe minor repairs and minor alterations and approve the work for return to service, but cannot perform an airframe 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.