

(M07)材料與零件：

題號	答案	題目
1(0048965)	C	<p>An aircraft should not be refueled when (A) the APU is running. (B) navigation and landing light in operation. (C) within 10 meters (30 feet) of radar operating.</p> <p>下列何種狀況下飛機不可加油？ (A) APU運轉時 (B) 航行與落地燈作用時 (C) 10公尺(30呎)內有雷達操作時</p>
2(0021540)	A	<p>Additives that speed up a paint's cure time are referred to as (A) hardeners. (B) retarders. (C) lacquer.</p> <p>加速塗料固化之添加劑是 (A) 固化劑 (B) 緩凝劑 (C) 亮光漆</p>
3(0021610)	C	<p>What is the torque value of a nut to use a 6 in torque wrench setting 150 in-lb with a 3 in extension bar (A) 205 in-lb (B) 215 in-lb (C) 225 in-lb</p> <p>延長桿 3 英吋,扭力扳手長 6 英吋,則設定150吋磅的扭力扳手可磅多少吋磅？ (A) 205 吋磅 (B) 215 吋磅 (C) 225 吋磅</p>
4(0029025)	A	<p>What type of meter is used for measuring very high values of resistance ? (A) Mega-ohmmeter. (B) Shunt-type ohmmeter. (C) Multimeter.</p> <p>用於測量非常高的電阻值是什麼類型的電表？ (A) 百萬歐姆表。 (B) 分流歐姆表。 (C) 三用電表。</p>
5(0021490)	B	<p>The Air Transport Association of America (ATA) Specification No.100 (1) establishes a standard for the presentation of technical data in maintenance manuals. (2) divides the air craft into numbered systems and subsystems in order to simplify locating maintenance instructions. Regarding the above statements, (A) neither No.1 nor No.2 is true. (B) both No.1 and No.2 are true. (C) only No.1 is true.</p> <p>美國航空運輸協會(ATA)之規範100：(1)它建立了一個標準以呈現維修手冊中之技術數據。(2)它將航空器劃分成數字編碼的系統和次系統，以簡化維護指引的位置所在。關於上述說明哪一項正確？ (A) (1)和(2)都是錯誤 (B) (1)和(2)都是正確 (C) 只有(1)是正確</p>

6(0048996)	B	<p>The width of a visible outline on a drawing is_____. (A) 0.3 mm (B) 0.7 mm (C) 0.5 mm</p> <p>在工程圖上，可見的輪廓的寬度為多少? (A) 0.3毫米 (B) 0.7毫米 (C) 0.5毫米</p>
7(0021687)	C	<p>A drawing in which all of the parts are brought together as an assembly is called (A) a sectional drawing. (B) a detail drawing. (D) an installation drawing.</p> <p>所有零件組裝在一起之工程圖稱作 (A)剖面圖 (B)細部零件圖 (C) 安裝圖</p>
8(0021686)	A	<p>What is the allowable manufacturing tolerance for a bushing where the outside dimensions shown on the blueprint are: $1.0625 + 0.0025 - 0.0003$? (A) 0.0028 (B) 1.0650 (C) 1.0647</p> <p>藍圖上的外徑標註之尺寸: $1.0625 + 0.0025 - 0.0003$ 的軸襯，其可接受之製造誤差為? (A) 0.0028 (B) 1.0650 (C) 1.0647</p>
9(0048997)	B	<p>What does GA stand for on a drawing? (A) General Assembly. (B) General Arrangement. (C) Gradient Axis.</p> <p>在工程圖上，GA是代表什麼? (A)總裝圖(General assembly) (B) 總配置圖(General arrangement) (C)漸變軸</p>
10(0049000)	C	<p>What is the maximum bow allowed in a strut? (A) 1 in 200. (B) 1 in 500. (C) 1 in 600.</p> <p>一個支柱中允許的最大弓度為何? (A) 200分之1 (B) 500分之1 (C) 600分之1</p>
11(0029018)	C	<p>Which is the process of obtaining the necessary electrical conductivity between the component metallic parts of the aircraft? (A) grounding test (B) insulation test (C) bonding test</p> <p>那一種方法可獲得飛機金屬組件之間的導電性(electrical conductivity)? (A) grounding test (B) insulation test (C) bonding test</p>
12(0049026)	B	<p>A repair has a double riveted joint. The shear strength would be_____. (A) 125%. (B) 75%. (C) 100%.</p> <p>修復具有雙重鉚接時，且剪力強度將為何? (A) 125%. (B) 75%. (C) 100%</p>
13(0021553)	B	<p>The minimum acceptable dimensions, where D equals the diameter of</p>

		<p>the rivet shank, for a formed end of a rivet are (A) height 0.65D, width 1.0D. (B) height 0.5D, width 1.5D.(C) height 0.65D, width 1.5D.</p> <p>下列何者為鉚釘柄成形頭所能接受之最小尺寸？(其中D為鉚釘直徑) (A) 高為0.65D，寬為1.0D (B) 高為0.5D，寬為1.5D (C) 高為0.65D，寬為1.5D</p>
14(0021595)	A	<p>A scratch or nick in aluminum alloy tubing can be repaired by burnishing, provided the scratch or nick does not (A) appear in the heel of a bend in the tube. (B) exceed 5 percent of the tube diameter. (C) exceed 10 percent of the tube diameter.</p> <p>鋁合金管之刮痕及刻痕可由管子研磨方式修理,但刮痕及刻痕必須 (A)不出現於彎管之根部(B)不超出管直徑之5% (C)不超出管直徑之10 %</p>
15(0021597)	B	<p>What is the complete designation for an aluminum nut for a flared fitting that will fit a 5/8 inch OD line? (A) AN818 D 5 (B) AN818 D 10 (C) AN818 D 16</p> <p>將有喇叭口接頭及5/8英吋(五分)外徑硬管彼此連接之鋁螺帽之全件號是? (A)AN818 D5 (B)AN818 D 10(C)AN818 D 16</p>
16(0056076)	A	<p>What is the length of a spring if NOT under load? (A) free length (B) block length (C) wire length</p> <p>沒有負載的彈簧其長度是 (A)自由長度 (B)區間長度 (C)線長度</p>
17(0049053)	A	<p>Thrust bearings transmit (A) thrust loads, thus limiting axial movement. (B) radial loads, thus limiting axial movement. (C) thrust loads, thus limiting radial movement.</p> <p>止推軸承傳遞什麼？(A)傳遞了推力負荷，進而限制了軸向移動。(B)傳遞了徑向負荷，進而限制軸向運動。(C)傳遞了推力負荷，進而限制了徑向移動。</p>
18(0049066)	A	<p>Backlash is a type of wear associated with (A) gears. (B) rivets. (C) bearings.</p> <p>「齒隙」磨損類型，與何者有相關？(A)齒輪 (B)鉚釘 (C)軸承</p>
19(0021560)	A	<p>On large aircraft, the ____ of the immediate area should be taken into consideration when using a tension meter? (A) Temperature. (B) Moisture. (C) Altitude.</p>

		在大型飛機上使用張力表做鋼繩張力之調整,應注意量測處之____ (A)溫度 (B)溼度 (C)高度
20(0049094)	B	<p>The sharpest bend that can be placed in a piece of metal without critically weakening the part is called the (A) maximum radius of bend. (B) minimum radius of bend. (C) bend allowance.</p> <p>一片金屬可以作最大的彎曲而不會弱化其本身稱為 (A)最大的彎曲半徑 (B)最小彎曲半徑 (C)彎曲容差</p>
21(0048985)	C	<p>When using a megger to test insulation resistance, capacitive filters should be disconnected for what reason? (A) Remove the risk of damage to the megger. (B) Remove the spurious readings caused by the capacitors charging and discharging. (C) Prevent damage to the filters.</p> <p>當使用絕緣測試器(megger)測試絕緣電阻，不能連接電容濾波器，原因是什麼？ (A)避免絕緣測試器損壞的風險 (B)避免因電容器充電和放電所引起的假讀數 (C)防止損壞濾波器</p>
22(0021582)	C	<p>What type of diagram is used to explain a principle of operation, rather than show the parts as they actually appear? (A) A block diagram. (B) A pictorial diagram. (D) A system schematic diagram.</p> <p>什麼樣的圖被用於解釋操作原理，而不是顯示實際上出現的零件？ (A)方塊圖 (B)實體圖 (C)系統簡圖</p>
23(0021581)	C	<p>A line used to show an edge that is not visible is a (A) phantom line. (B) break line. (C) hidden line.</p> <p>一條用來表示看不見邊緣的線稱為-----? (A)假想線(phantom line) (B)斷線(break line) (C)隱藏線(hidden line)</p>
24(0049006)	B	<p>If there is a positive allowance between the smallest possible hole and the largest possible shaft, the fit is known as (A) a transition fit. (B) a clearance fit. (C) an interference fit.</p> <p>如果在最小可能的孔和最大可能的軸之間有正值的裕度，其裝配被稱為 (A)過渡裝配 (B)間隙裝配 (C)干擾配裝</p>
25(0049005)	B	<p>The length of a blended repair of corrosion should be no less than (A) 10 times its depth. (B) 20 times its depth. (C) 5 times its depth.</p> <p>腐蝕磨除修理的長度應不小於 (A)深度的10倍 (B)深度的20倍 (C)深度的5倍</p>

26(0021529)	A	<p>When coaxial cable is installed, it should be secured firmly along its entire length ... (A) at 1-ft intervals. (B) wherever the cable sags. (C) at 2-ft intervals.</p> <p>安裝同軸電纜時，其沿線之加固間距為 (A)間隔1英尺 (B)任何下垂處 (C)間隔2英尺</p>
27(0021598)	C	<p>Many hoses are made of TFE or Teflon and may be used for practically all ___? encountered on an airplane. (A) fuel (B) hydraulic fluid (C) fluids</p> <p>在飛機之管路使用中,用 TFE or Teflon材料製成之管子可實際應用於飛機何處? (A)燃油 (B)液壓 (C)流體</p>
28(0056079)	C	<p>What are the coils in a coil spring that move or deflect under a load? (A) coil surge (B) end coils (C) active coils</p> <p>線圈彈簧在負載下移動或偏轉的線圈是? (A)起伏線圈 (B)末端線圈 (C)作動線圈</p>
29(0049043)	B	<p>A tapered roller bearing is designed to take (A) radial loads only. (B) both radial and axial loads. (C) axial loads only.</p> <p>錐形滾柱軸承是設計來承受 (A)只有徑向負載 (B)徑向和軸向負載 (C)只有軸向負載</p>
30(0049065)	A	<p>Control chains should be fitted in an aircraft (A) with the minimum of slack in the chain. (B) so that the chain can be removed easily. (C) with as much slack as possible to allow for contraction.</p> <p>應該如何安裝控制鏈在飛機上 (A)保持鏈條的最小鬆弛度 (B)使得鏈條可以容易地移除 (C)盡可能地讓它鬆弛以容許收縮</p>
31(0021558)	A	<p>The completed terminal sleeves should be checked periodically with the proper gauge called (A) Go-no-go gauge. (B) Surface gage. (C) Depth gage.</p> <p>完成之鬆緊套(Terminal Sleeves)應當週期性地使用何種適當之工具來檢查? (A)過或沒有過測量規(go-no-go gauge) (B)平面規(Surface gage) (C)深度規(Depth gage)</p>
32(0049085)	A	<p>The skin on an aircraft is normally manufactured from (A) 2024 aluminum alloy. (B) 7075 aluminum alloy. (C) 2117 aluminum alloy.</p> <p>飛機上的機身表面，通常是用什麼材料製造的? (A)2024鋁合金</p>

		(B)7075鋁合金 (C)2117鋁合金
33(0021678)	A	<p>In bending, the neutral axis is (A) a line created by the points where the compressive load of the bend equals the tension load. (B) specified on the inside radius on modern aircraft drawings. (C) the same as the setback.</p> <p>金屬彎曲加工中，所謂之中性軸意指 (A)一條虛擬之線，其壓縮與拉伸應力相等。(B)現代飛機製圖上指定之內側半徑 (C)與Setback同義</p>
34(0027982)	B	<p>The approved maintenance organization must retain maintenance records and associated maintenance data to aircraft and aircraft component for at least (A) 1 year. (B) 2 years. (C) 5 years.</p> <p>核准的維修機構，在飛機及飛機零件的維修紀錄和相關的維修數據，必須保留至少 (A)1年 (B)2年 (C)5年</p>
35(0028082)	C	<p>Page Blocks are used in the Maintenance Manual to enable the user to locate the desired information more rapidly. Information for Removal and Installation can be found in page... (A) 201 to 300. (B) 301 to 400. (C) 401 to 500.</p> <p>頁面區塊用於維護手冊以便使用人能夠更迅速地找到想要的訊息。拆卸和安裝的資料可在哪些頁面發現? (A) 201 到 300 (B) 301 到 400 (C) 401 到 500</p>
36(0048990)	B	<p>A pressure gauge is fitted to a Dead Weight Tester. The piston area is 0.25 sq.in. and the total mass of the mass carrier and masses is 5 LB. If the pressure gauge is accurate, what pressure in pounds per square inch (PSI) will it read? (A) 1.25 psi. (B) 20 psi. (C) 200 psi.</p> <p>一個壓力表安裝到靜重測試儀時，如果活塞面積為0.25平方英寸，總重量是5磅。那壓力是多少? (A) 1.25 psi. (B) 20 psi. (C) 200 psi.</p>
37(0021491)	B	<p>Which statement relating to electrical wiring is true? (A) When attaching a terminal to the end of an electric cable, it should be determined that the strength of the cable to terminal joint is at least twice the tensile strength of the cable. (B) When attaching a terminal to the end of an electric cable, it should be determined that the strength of the cable to terminal joint is at least equal to the tensile strength of the cable itself. (C) All electric cable splices should be covered with soft insulating tubing (spaghetti) for mechanical protection against external</p>

		<p>abrasion.</p> <p>關於電氣線路，以下哪種說法為正確？ (A)當一個端子連接到電線端，應該確定電線與端子接合之強度，至少是電線拉伸強度之2倍 (B)當一個端子連接到電線端，應該確定電線與端子接合之強度，至少等於電線本身之拉伸強度 (C)所有之電線接頭，應該覆蓋絕緣軟管保護，防止外部之磨損</p>
38(0021596)	B	<p>What is the complete designation for a 90" elbow to join two flared 3/8 in OD tubes? (A) AN821-3 (B) AN821-6 (C) AN821-9</p> <p>九十度彎頭接頭，兩端喇叭口外徑為3/8英吋(三分)，則其全代號是？ (A) AN821-3 (B) AN821-6 (C) AN821-9</p>
39(0049052)	B	<p>After cleaning a bearing, it should be (A) left in free air to dry naturally. (B) dried with clean, warm, dry compressed air. (C) dried with lint free rags.</p> <p>軸承清洗後應該如何進行乾燥處理？ (A)留在空氣中自然風乾 (B)由乾淨，暖和和乾燥的壓縮空氣吹乾 (C)用無絨抹布擦乾</p>
40(0049077)	C	<p>How do you check a chain for elongation? (A) Hang chain up, check sight line and measure. (B) Adjust the end fittings. (C) Lay flat on a table, apply tensile load and measure.</p> <p>如何檢查一個鏈條的伸展程度？ (A)掛鍊，檢查瞄準線和觀測線 (B)調整端接頭 (C)平放在桌子上，並加上拉伸負載和測量</p>
41(0021641)	B	<p>The angle of pulley and pulley alignment line should not over (A) 1 degree. (B) 2 degree. (C) 3 degree.</p> <p>滑輪與滑輪之校準線夾角不可大於幾度？ (A)1度 (B)2度 (C)3度</p>
42(0021566)	B	<p>What is used to protect a cable routed through a small bulkhead hole? (A) seal (B) grommet (C) compound</p> <p>下列何者是用來做為操縱鋼索穿越壓力隔艙小孔時之保護物？ (A)密封墊圈(seal) (B)護圈(grommet) (C)複合物(compound)</p>
43(0021574)	C	<p>When drilling stainless steel, the drill used should have an included angle of (A) 90 degree and turn at a low speed. (B) 90 degree and turn at a high speed. (C) 140 degree and turn at a low speed.</p> <p>當鑽不鏽鋼材時，麻花鑽頭之夾角應為多少度及何種轉速？ (A) 90度及低轉速 (B) 90度及高轉速 (C) 140度及低轉速</p>

44(0049101)	B	<p>Prior to aluminum alloy bonding we use (A) alkaline etch. (B) acid etch. (C) solvent wipe.</p> <p>在安裝鋁合金搭接之前，我們使用什麼方式？(A)鹼性蝕刻 (B)酸蝕 (C)溶劑擦拭</p>
45(0049097)	B	<p>A mechanic has completed a bonded honeycomb repair using the potted compound repair technique. What non-destructive testing method is used to determine the soundness of the repair after the repair has cured? (A) Eddy current test. (B) Metallic ring test. (C) Ultrasonic test.</p> <p>當機械員利用密封的複合修復技術完成蜂窩複材修復粘合，什麼樣的非破壞性的檢查方式可以使用？(A)渦電流測試 (B)金屬敲擊聲測試 (C)超音波測試</p>
46(0021591)	B	<p>When towing an aircraft, (A) all nosewheel aircraft must be towed backwards. (B) if the aircraft has a steerable nose wheel, the locking scissors should be set to full swivel. (C) all struts should be fully deflated.</p> <p>拖機時，何者正確？(A)所有鼻輪式航空器必須向後拖曳 (B)如果航空器有一個可轉向鼻輪，鼻輪之剪刀鎖(locking scissors)應該設置在可充分旋轉之位置 (C)將所有減震支柱完全放氣</p>
47(0027977)	C	<p>The aircraft is airworthy as: (1) Parts and materials come from any organization. (2) All the scheduled maintenance tasks are done in schedule. (3) the aircraft is confirmed to conform the Type Certificate. (A) Only (1) and (2) are required. (B) Only (1) and (3) are required. (C) Only (2) and (3) are required.</p> <p>如何判斷飛機適航？(1) 零件和材料來自任何機構。(2) 所有定期維護工作如期完成。(3) 確認該飛機符合型別檢定證書。(A) 只有(1)和(2)是必需的。(B)只有(1)和(3)是必需的。(C)只有(2)和(3)是必需的。</p>
48(0048991)	A	<p>When testing a fuel metering unit, how is it checked? (A) With the meter in series with the unit. (B) With the unit disconnected. (C) With the meter in parallel with the unit.</p> <p>如何檢測燃油計量單元？(A)以測試儀表和測試的單元串聯 (B)需拆下油量計量單元檢測 (C)以測試儀表和測試的單元並聯</p>
49(0021651)	C	<p>Use the triangular files are limited to internal angles less than (A) 120</p>

		degree. (B) 100 degree. (C) 90 degree. 三角形銼刀限用於內角小於 (A)120 度 (B)100 度 (C)90 度
50(0021638)	B	2 micron meters is (A) 0.002 ". (B) 0.002 mm. (C) 0.0002 ". 2 微米(micron meters)等於 (A) 0.002 吋 (B) 0.002 公釐 (C) 0.0002 吋