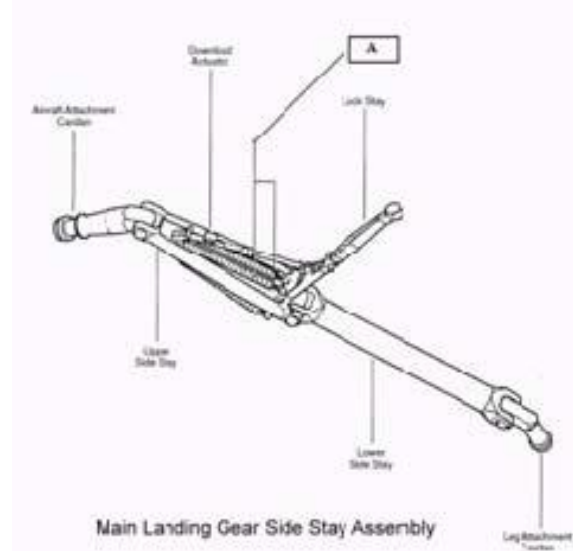


(M06)材料與零件：

題號	答案	題目
1(0021318)	A	<p>What kind of treatment can not produce certain internal properties of steel ? (A) Abrasion (B) Alloying (C) Cold working</p> <p>下列哪種處理無法改變鋼之內部特性？ (A) 研磨處理 (B) 合金 (C) 冷作處理</p>
2(0021307)	C	<p>Which the following can not prevent metal fatigue happen ? (A) Using correct tooling (B) Maintain the drawing size and tolerance (C) Keep sharp corners</p> <p>下列何者不能防止金屬疲勞？ (A) 使用正確工具 (B) 保持工程圖之尺寸及容差 (C) 保持銳角</p>
3(0021438)	C	<p>Bronze is an alloy of copper and (A) beryllium (B) zinc (C) tin</p> <p>青銅是紅銅與何種元素之合金？ (A) 鈹 (B) 鋅 (C) 錫</p>
4(0056056)	C	<p>Which following item is correct that describe the hardness tester (1)Brinell hardness tester uses a hardened spherical ball, which is forced into the surface of the metal. (2)Vickers hardness tester uses a 136 square pyramid indenter, which is forced into the surface of the sample. (A) (1) is true. (B) (2) is true. (C) (1) and (2) are true.</p> <p>關於硬度測試,下列述何者為真？(1)Brinell 硬度測試法使用一硬圓球壓入材料表面. (2)Vickers硬度測試法使用一136度四方金字塔形壓頭壓入材料表面. (A) (1)對. (B) (2)對. (C) (1)和(2)都對.</p>
5(0021454)	A	<p>Advanced composite materials possess superior specific stiffness. What is the definition of specific stiffness ? (A) elastic modulus divided by density (B) strength divided by density (C) elastic modulus multiplied by density</p> <p>先進複合材料具有優越之比勁度,請問比勁度是什麼？ (A) 彈性係數除以密度 (B) 強度除以密度 (C) 彈性係數乘以密度</p>
6(0059198)	C	<p>If a self-locking nut (non-metallic insert) with a split-pin locking feature that is being shimmed for fit, how many times could it be re-torqued up to adjust the shim thickness for split pin fit? (A) 4 times (B) 6 times (C) 10 times</p>

		以開口銷做上鎖作用的自鎖螺帽(非金屬內填物)以填隙垫片作為配合時，為配合開口銷安裝，可以重上扭力幾次以調整填隙垫片的厚度？(A) 4 次 (B) 6 次 (C) 10 次
7(0059180)	A	<p>Holes for rivet shall be drilled straight and perpendicular (within _?_) to the surface against which the manufactured head will bear. (A) $\pm 2^\circ$ (B) $\pm 3^\circ$ (C) $\pm 4^\circ$</p> <p>鑽鉚釘孔時，孔需筆直並與鉚釘頭接觸面的垂直誤差在幾度內？(A) $\pm 2^\circ$ (B) $\pm 3^\circ$ (C) $\pm 4^\circ$</p>
8(0021286)	A	<p>The material letter code for 2017 aluminum alloy rivet is (A) D (B) AD (C) DD</p> <p>2017鋁合金鉚釘之材料記號是 (A) D (B) AD (C) DD</p>
9(0059176)	A	<p>In order to form the shop head and fill all clearance space in the hole, how many times of rivet diameter of monel rivet length shall exceed the material thickness before riveted? (A) 1 (B) 1.2 (C) 1.4</p> <p>一般選用monel鉚釘時，鉚釘突出鉚接處之長度應為直徑的幾倍？(A) 1 (B) 1.2 (C) 1.4</p>
10(0059178)	B	<p>In order to achieve the proper pre-load for a given joint when installing flush head rivets, all provisions shall be made to achieve sufficient protrusion (no less than__?__) of each flush head rivet in the countersink prior to driving. (A) 0.000" (B) 0.001" (C) 0.002"</p> <p>當安裝沉頭鉚釘時，連接處為了得到適當的預負載，鉚合前，鉚釘置於沉頭孔最少要突出多少高度以利安裝？(A) 0.000" (B) 0.001" (C) 0.002"</p>
11(0059244)	B	<p>which one is not the main factor while spring manufacturing? (A) Heat treatment. (B) Corrosion resistance. (C) Material selection.</p> <p>下列何者非彈簧製造主要考量(A) 熱處理 (B) 抗腐蝕性 (C) 材料選擇</p>
12(0027867)	A	<p>In the graph, what is A? (A) tension springs (B) compression springs (C) torsion springs</p> <p>在圖中，A是甚麼？(A) 拉力彈簧 (B) 壓縮彈簧 (C) 扭力彈簧</p>

		
13(0059245)	B	<p>Which factor is important for lower coils of spring? (A) corrosion (B) unsymmetric load (C) temperature factor</p> <p>彈簧圈數少時需特別考慮下列何因素? (A) 腐蝕作用 (B) 荷重偏心 (C) 溫度效應</p>
14(0027793)	C	<p>Which bearing can take the biggest thermal expansion? (A) ball bearing (B) sliding bearing (C) cylindrical roller bearing</p> <p>下列哪一種軸承可以承受最大的熱膨脹? (A) 滾珠軸承 (B) 滑動軸承 (C) 柱狀滾軸軸承</p>
15(0027791)	B	<p>Which bearing has the longest fatigue life? (A) Ball bearing. (B) Tapered roller bearing. (C) Sliding bearing.</p> <p>下列哪一種軸承具有最長的疲勞壽命? (A) 滾珠軸承 (B) 錐狀滾軸軸承 (C) 滑動軸承</p>
16(0059253)	C	<p>Which one is not the advantage of anti-friction bearing? (A) Low friction. (B) Less lubricant. (C) High static strength.</p> <p>下列何者不是抗磨軸承的優點? (A) 低磨擦 (B) 所需潤滑油較少 (C) 高靜力強度</p>
17(0027837)	C	<p>Which coupling consists of an expansion coupling and an elastic coupling? (A) Safety coupling. (B) Solid coupling. (C) Movable coupling.</p> <p>哪種聯軸器包含著擴張聯軸器和彈性聯軸器? (A) 安全聯軸器 (B) 固聯軸器 (C) 可移動式聯軸器</p>
18(0059172)	C	<p>Which one of the following is the drive gear of the Planetary sun gear?</p>

		<p>(A) Ring gear (B) Planetary gear (C) Sun gear</p> <p>下列何者為行星太陽齒輪組的驅動齒輪?(A) 圈齒輪 (B) 行星齒輪 (C) 太陽齒輪</p>
19(0027845)	C	<p>Which transmission component only can transmit pulling forces? (A) Rotary selectors. (B) Quadrants. (C) Cables.</p> <p>哪一項傳輸組件僅可傳輸拉力？(A) 旋轉選擇器 (B) 扇形輪 (C) 鋼繩</p>
20(0021295)	A	<p>What is the maximum number of terminal fitting thread should show outside the barrel end of turnbuckle (A) 3 threads (B) 5 threads (C) 2 threads</p> <p>鬆緊套(turnbuckle)之接頭(terminal fitting)到套管上，接頭之螺牙最多可露幾牙？(A) 三牙 (B) 五牙 (C) 兩牙</p>
21(0059200)	B	<p>In any over-torqued fastener assembly, both the bolt, screw or stud and the nut shall be...(A) repaired (B) rejected (C) reworked</p> <p>任何超過扭力之扣件，螺栓、螺釘或螺樁及其相配之螺帽兩者必須如何處置？(A) 修理 (B) 剔退 (C) 重施工</p>
22(0059231)	C	<p>What correct type of material must be used in all fittings with lock-wire holes to prevent loosening of fitting?(A) Rope (B) Bandage (C) Lockwire</p> <p>所有有保險孔之接頭，均應以正確之何種器材予以保險以防止接頭鬆脫。(A) 繩子 (B) 綁帶 (C) 保險絲</p>
23(0059183)	A	<p>Sloped shop heads are allowed, provided the mean height is greater than the appropriate minimum height dimensional requirement and the minimum height of the sloped shop head shall be greater than ____D, where D is the diameter of rivet. (A) 0.25 (B) 0.35 (C) 0.45</p> <p>斜狀的鉚釘成形頭(shop head)只要其平均高度較最低高度高，且其最低傾斜高度至少要高於鉚釘直徑的幾倍？(A) 0.25 (B) 0.35 (C) 0.45</p>
24(0059177)	A	<p>How many times of rivet diameter of the nominal height of rivet should be riveted? (A) 0.5 (B) 0.7 (C) 0.9</p> <p>鉚釘鉚擊完成後，鉚擊成形頭正常高度為鉚釘直徑的幾倍？(A) 0.5 (B) 0.7 (C) 0.9</p>

25(0059179)	A	<p>After shaved for flush, under no circumstances shall the rivet head be reduced by more than ___?___ of the nominal head diameter.(A) 0.05 (B) 0.1 (C) 0.15</p> <p>在任何情況下，銑切後的鉚釘頭直徑減小量不可超過公稱直徑的_____？(A) 0.05 (B) 0.1 (C) 0.15</p>
26(0059235)	B	<p>What is the main cause for the difference of load-deformation chart between increasing or reducing the load on spring (A) mechanical energy (B) friction energy (C) position energy</p> <p>彈簧荷重增加與減少時,其荷重與變形量圖形不同主因為(A) 機械能 (B) 磨擦能 (C) 位能</p>
27(0027826)	B	<p>Bearings typically have to deal with two kinds of loads. What are the two loads? (A) friction and thrust (B) radial and thrust (C) radial and centrifugal force</p> <p>軸承通常承受哪兩種負載？(A) 摩擦和推力 (B) 徑向和推力 (C) 徑向和離心力</p>
28(0027795)	C	<p>Which bearing allows minor angular displacements between rotating shaft and bearing housing? (A) Ball Bearings (B) Cylindrical Roller Bearings (C) Spherical Roller Bearings</p> <p>下列表中哪一種軸承可以允許輕微的旋轉軸和軸承座之間的角位移？(A) 滾珠軸承 (B) 柱狀滾軸軸承 (C) 球面滾軸軸承</p>
29(0027843)	C	<p>If we talk about the structural elements of power transmission within control mechanisms, which of following requirements is NOT included? (A) safety (B) lightweight (C) power sources</p> <p>動力傳動的結構元件內部控制機構，不包含以下何者？(A) 安全聯軸器 (B) 輕量化 (C) 動力源</p>
30(0059068)	C	<p>The minimum clearance between control cables and adjacent cable systems and structure or component shall be (A) 1.00" near supports (B) 0.25" near supports (C) 0.50" near supports</p> <p>鋼繩與臨近鋼繩系統、結構或裝備最小間隙？(A) 靠近支撐點最小1.00" 。 (B) 靠近支撐點最小0.25" 。 (C) 靠近支撐點最小0.50" 。</p>
31(0027761)	C	<p>Select an extra-flexible cable from the list. (A) 1 x 7 cable (B) 1 x 19 cable (C) 7 x 19 cable</p>

		<p>下列表中選擇一個特軟性鋼繩。(A) 1 x 7 鋼繩 (B) 1 x 19 鋼繩 (C) 7 x 19 鋼繩</p>
32(0029009)	A	<p>Wires with aluminum conductors are only used for (A) large loads to save weight (B) fire protection to take higher temperature (C) passenger entertainment system to reduce voltage drop</p> <p>鋁製之導線僅用於(A) 大負載，以節省重量。(B) 防火，以承受高溫度。(C) 客艙，以減低壓降。</p>
33(0021435)	C	<p>Two or more separate wires within the same insulation and protective sheath is referred to as a (A) screened wire. (B) coaxial cable. (C) cable.</p> <p>兩個或以上獨立電線在相同之絕緣和保護套內稱為(A) 遮蔽電線 (B) 同軸電纜 (C) 電纜</p>
34(0027878)	C	<p>The number system of AWG (American Wire Gauge) is related to the wire (A) combined resistance and current-carrying capacity (B) current-carrying capacity (C) cross-sectional area</p> <p>AWG (美國線規) 的數字編碼系統是相對於導線的(A) 綜合電阻和電流承載能力 (B) 電流承載能力 (C) 橫截面面積</p>
35(0029013)	A	<p>For Boeing wire number W104-2444-22-R or Airbus wire number 2322-0121R, this letter R is...(A) ... color code. (B) ... wire designation code. (C) ...manufacturer code.</p> <p>波音線號W104-2444-22-R或空中巴士線號2322-0121R，字母R代表...(A) 色碼 (B) 生產規範碼 (C) 製造廠代碼</p>
36(0059191)	C	<p>Installation of self-sealing nuts against slopes greater than ? degrees is not recommended. (A) 0.5 degrees (B) 1 degrees (C) 2 degrees</p> <p>安裝自動密封螺帽，對偏斜度不建議大於幾度? (A) 0.5度 (B) 1度 (C) 2度</p>
37(0059189)	B	<p>For self-locking inserts, the bolts shall not be re-used for that purpose more than (A) 8 times. (B) 10 times. (C) 16 times.</p> <p>當安裝於自鎖嵌套時，螺栓不可重覆使用超過幾次? (A) 8次 (B) 10次 (C) 16次</p>
38(0059249)	A	<p>What is the function of teeth shap spring washer? (A) Prevent nut loose toward opposite direction (B) Bolt protection (C) Bolt adjustment</p>

		有齒彈簧墊圈之主要目的為? (A) 防止螺帽逆轉鬆脫 (B) 保護螺栓 (C) 調整螺栓
39(0059243)	C	Which one can obtain the non-linear characteristic spring? (A) higher pitch angle of spring (B) lower pitch angle of spring (C) unequal pitch of spring 利用何種方法可獲得非線性特性之彈簧(A) 增大螺距角 (B) 降低螺距角 (C) 不等螺距
40(0059251)	B	The effective coils number of spring is the total number of coils minus the number of end coil. Is the above description true? (A) Yes. (B) No. (C) Not related. 彈簧之有效圈數是否為總圈數扣除座圈數? (A) 是 (B) 否 (C) 不相關
41(0027829)	C	Which bearing from the list has the lowest starting resistance? (A) roller bearing (B) sleeve bearing (C) ball bearing 下列哪一項軸承具有最低的起動阻力? (A) 滾柱軸承 (B) 槽型軸承 (C) 滾珠軸承
42(0059260)	A	Attention must be paid to ____ when removing bearing. (A) cleaning (B) humidity (C) tool accessibility 軸承的拆卸過程始終都需注意 (A) 清潔 (B) 濕度 (C) 工具施工難易度
43(0027827)	C	Which type bearing is not an anti-friction bearing? (A) ball bearing (B) tapered bearing (C) slot bearing 哪種類型軸承不是一種抗摩擦軸承? (A) 滾珠軸承 (B) 帶式軸承 (C) 槽型軸承
44(0059171)	A	What is the mechanical advantage of the machine with effort 90 lb, effort arm 60 inches; resistance 300 lb, resistance arm 18 inches? (A) 3.33 (B) 0.3 (C) 1 某機構其輸入力量90磅，輸入力距60吋；荷重300磅，荷重力距18吋，其機械效益為何? (A) 3.33 (B) 0.3 (C) 1
45(0059068)	C	The minimum clearance between control cables and adjacent cable systems and structure or component shall be (A) 1.00" near supports. (B) 0.25" near supports. (C) 0.50" near supports.

		鋼繩與臨近鋼繩系統、結構或裝備最小間隙？(A) 靠近支撐點最小1.00" 。 (B) 靠近支撐點最小0.25" 。 (C) 靠近支撐點最小0.50" 。
46(0059070)	A	<p>All cable assemblies manufactured with swaged terminals shall be proof loaded to(A) Shall be proof loads to 60 percent of ultimate cable strength. (B) Shall be proof loads to 80 percent of ultimate cable strength. (C) Shall be proof loads to 40 percent of ultimate cable strength.</p> <p>鋼繩接頭壓接後之保證負載？(A) 以鋼繩極限負荷之60%執行保證負載測試。 (B) 以鋼繩極限負荷之80%執行保證負載測試。 (C) 以鋼繩極限負荷之40%執行保證負載測試。</p>
47(0021462)	B	<p>What is the circular-mil dimension of a wire 0.050 in.in diameter? (A) 50 (B) 2500 (C) 250</p> <p>一個0.050英吋直徑之電線其圓密爾尺寸為多少？(A) 50 (B) 2500 (C) 250</p>
48(0027882)	C	<p>Particular attention should be given for the mechanical strength and installation handling of wires when using wire sizes smaller than(A) AWG 00. (B) AWG 02. (C) AWG 20.</p> <p>當使用的導線尺寸小於...時，電線的機械強度和安裝處理應給予特別注意(A) AWG 00 (B) AWG 02 (C) AWG 20</p>
49(0027875)	A	<p>The most common method of attaching a pin or socket to an individual wire in a electrical connector is by ... (A) ... crimping. (B) ... soldering. (C) ... crimping and soldering.</p> <p>最常應用於將電氣接投中的各別導線接到接腳或插座的方法是？(A) ... 壓接 (B) ... 焊接 (C) ... 壓接和焊接</p>
50(0029011)	C	<p>In general the shielded wires are used in systems to protect against...(A) fire. (B) fluid. (C) noise.</p> <p>一般而言，於系統中使用屏蔽電線(shield cable)，是要防止... (A) 火 (B) 液體 (C) 噪音__</p>