

(209-M14)推進系統：

題號	答案	題目
1(0028904)	A	<p>What data format does EEC(Electronic Engine Control) use? (A) ARINC 429. (B) ARINC 629. (C) Both ARINC 429 and 629.</p> <p>EEC(Electronic Engine Control) 使用什麼樣的數據格式？ (A) ARINC 429 (B) ARINC 629 (C) ARINC 429 和 629</p>
2(0054985)	C	<p>The H.M.U(Hydro Mechanical Unit) of a FADEC(Full-Authority Digital Engine Control) engine increases fuel flow by increasing... (A) air flow through the compressor. (B) Hydraulic Servo Valve. (C) Fuel Metering Valve.</p> <p>FADEC 發動機其 HMU(Hydro Mechanical Unit)是利用下列何者來增加燃油流量? (A) 經由壓縮器之氣流 (B) 液壓伺服閥 (C) Fuel Metering Valve</p>
3(0028897)	C	<p>FADECs(Full-Authority Digital Engine Control) operate by (A) 1 controlling 1 operating. (B) 2 controlling 1 operating. (C) 2 units each capable of independent control.</p> <p>全功能數位電子發動機控制系統(FADEC)係由 (A) 1 個系統控 1 個操作。(B) 2 個控制系統控制 1 個操作。(C) 2 個單位，具各自獨立控制能力。</p>
4(0055019)	B	<p>An annular combustion chamber consists of (A) an air tube and a flame tube. (B) an outer skin and an inner and outer flame skin. (C) a series of flame tube in an air annulus.</p> <p>環形燃燒室由何者組成？ (A) 空氣管及火焰管 (B) 一個外層和一個內外燃燒層 (C) 多個火焰管在環形空間</p>
5(0028848)	C	<p>The majority of power in a free power turbine engine is used to ... (A) ... drive the gas generator. (B) ... drive the AGB(Accessory Gear Box). (C) ... drive the propeller.</p> <p>一個自由動力渦輪發動機，其大部分的功率都被用來 ... (A) ... 驅動渦輪機本體。(B) ... 驅動附件齒輪箱。(C) ... 驅動螺旋槳。</p>

6(0028847)	C	<p>The primary advantage of an axial-flow compressor over a centrifugal compressor is ... (A) ... larger frontal area. (B) ... less expensive. (C) ... greater pressure ratio.</p> <p>軸流式壓縮機較離心式壓縮機好，其主要優點是 ... (A) ... 迎風面積較大。 (B) ... 較便宜。 (C) ... 壓縮比值較大。</p>
7(0028975)	B	<p>If air is bled from the turbine engine H.P. bleed valve, the engine ... (A) ... EPR stays constant and EGT decreases. (B) ... EPR decreases and EGT increases. (C) ... EPR increases and EGT decreases.</p> <p>如果渦輪發動機的空氣自高壓放氣閥排出，則發動機的 ... (A) ... EPR 保持恆定且 EGT 降低。 (B) ... EPR 降低且 EGT 增加。 (C) ... EPR 增加且 EGT 降低。</p>
8(0055027)	C	<p>An aircraft with a fixed pitch propeller, what indication has the pilot got of the output power? (A) Fuel flow. (B) Oil pressure. (C) Propeller rotate speed.</p> <p>考慮一架有固定螺距螺旋槳航空器，試問，駕駛員可從哪個指示器讀數得知其動力輸出？ (A) 燃油流量 (B) 滑油壓力 (C) 螺旋槳轉速</p>
9(0028903)	C	<p>The EEC(Electronic Engine Control) is powered by ... (A) ... a dedicated alternator only. (B) ... the aircraft electrical system only. (C) ... both dedicated alternator or aircraft electrical systems independently depending on conditions.</p> <p>EEC(Electronic Engine Control) 電源的供應是由 ... (A) ... 僅由一個專用的交流發電機。 (B) ... 僅由飛機的電力系統。 (C) ... 依據狀況由專用的交流發電機或飛機電力系統獨立供應。</p>
10(0028907)	B	<p>The EEC(Electronic Engine Control) changes power settings by ... (A) ... changing the airflow input. (B) ... changing the fuel flow input. (C) ... changing the fuel pressure input.</p> <p>EEC(Electronic Engine Control) 由 ... 來改變推力設定。 (A) ... 改變氣流輸入 ... (B) ... 改變燃油流量輸入 ... (C) ... 改變燃油壓力輸入 ...</p>
11(0028909)	C	<p>The input signal of EEC(Electronic Engine Control) for a FADEC engine includes ... (A) ... speed and temperature only. (B) to smooth</p>

		<p>the airflow covering over the propeller hub. (C) ... temperature, speed and pressure.</p> <p>FADEC 發動機的 EEC(Electronic Engine Control)輸入信號包括 ...(A) ...僅速度和溫度。 (B) ... 僅溫度和壓力。 (C) ... 溫度，速度和壓力。</p>
12(0028892)	A	<p>The Brayton cycle is known as the constant ...(A) ... pressure cycle. (B) ... temperature cycle. (C) ... flow cycle.</p> <p>布萊頓循環就是所謂的恆定 ...(A) ... 壓力循環。 (B) ... 溫度循環。 (C) ... 流量循環。</p>
13(0028921)	C	<p>Which task does NOT belong to FADEC engine control? (A) Starting and shutdown control. (B) Acceleration and deceleration. (C) Flame out and external fire prevention.</p> <p>哪一項工作不屬於 FADEC 發動機控制？ (A) 啟動和關斷控制 (B) 加速和減速 (C) 熄火和外部防火</p>
14(0055108)	A	<p>Boost pressure is a measure of (A) manifold pressure. (B) atmospheric pressure plus turbocharger inlet pressure. (C) atmospheric pressure less turbocharger inlet pressure.</p> <p>增壓壓力(Boost pressure)為 (A) 歧管壓力(B) 大氣壓加上渦輪增壓器的進氣壓力 (C) 大氣壓力減掉渦輪增壓器的進氣壓力</p>
15(0055065)	A	<p>The bleed valve on a engine at start up is (A) open. (B) closed. (C) modulating.</p> <p>當發動機啟動時，其洩放閥門狀態為 (A) 開啟 (B) 關閉 (C) 動態調節</p>