



一、何謂 3D 列印 (3D Printing)？他與傳統的 RP (Rapid Prototype) 快速成型有何差別？請論述你認為 3D 列印技術會對產品設計、與產品生產觀念產生何種影響？(20 分)

二、請以認知心理學中訊息處理的觀點來介紹何謂注意力 (Attention)？我們為什麼需要注意力？另外，請介紹何謂選擇性注意力 (Selective Attention) 與分散型注意力 (Divided Attention)，並以我們日常生活中所會進行的活動或事件來說明這兩種注意力如何讓人們可以完成日常生活中的任務。(20 分)

三、請妳／你將以下英文，翻譯為中文，並且發表對於這段文字的看法。(20 分)

Designers go astray for several reasons. First, the reward structure of the design community tends to put aesthetics first. Design collections feature prize-winning clocks that are unreadable, alarms that cannot easily be set, can openers that mystify. Second, designers are not typical users. They become so expert in using the object they have designed, that they cannot believe that anyone else might have problems; only interaction and testing with actual users throughout the design process can forestall that. Third, designers must please their clients, and the clients may not be the users. (摘自 Norman, D. A. (1990). *The Design of Everyday Things*.)

四、手術房中的醫生、護士，病患，一般會穿著藍綠色的衣物，為什麼？試以人的視覺特性解釋之。(15 分)？

五、名詞解釋 (25 分，每小題各 5 分)

- (一) 永續設計(Sustainable Design)
- (二) 歸納法(Induction)與演繹法(Deduction)
- (三) Kansei Engineering
- (四) User Experience Design
- (五) Jonathan Ive



國立雲林科技大學 103 學年度  
碩士班招生考試試題

系所：工設系  
科目：工業設計實務

請針對以下 Buyer 所提出的要求來回答各個题目的解答。

**Article:** Kiwi-to-go-Box(可攜式奇異果盒組)

**Quantity to be supplied:** 150,000 Sets

**Production description:**

Kiwi-to-go-Box with the following features:

- Kiwi-to-go-Box 3 in 1
- Knives, spoon and box together
- Kiwi can be transported without being damaged
- Clean cutting and spooning
- Spoon integrated, spoon with integrated knife/cutting help in its handle
- Kiwi box has a spoon-shaped recess which is open to the top
- Sturdy dishwasher safe plastic (PP)
- Size approx. 7 x 9 x 10 cm ( D x H x W )
- Harmful substances, dishwasher and food safe

**Material and Color :**

Box: PP, translucent orange (Panton No.) 150C

Spoon/knife/cap: PP, translucent pink/red (Panton No.) 1925C

**Final delivery date:** 4 months later

1. 請提出你的設計時程及生產計劃表？(20 分)
2. 請提出你的設計概念(3D rendering、2D 外觀尺寸圖)及設計理念詳細的說明？(60 分)
3. 請提出 FOB 報價？並將此價格做合理計算是由那些成本所構成，不要忘了利潤。(20 分)

(作答時請勿將考生個人資料呈現於答案卷上，違者不予計分)。