

國立臺北科技大學九十八學年度四技推薦甄選入學考試

工業設計系 設計概論試題

- 注意事項：
1. 本試題共 4 大題，共 2 頁，總分 100 分。
 2. 請按順序標明題號作答，不必抄題。
 3. 全部答案均須在答案卷內作答，否則不予計分，答案卷正反面皆可作答。
 4. 答案卷不得書寫考生姓名、系組編號、報名序號，違者不予計分。

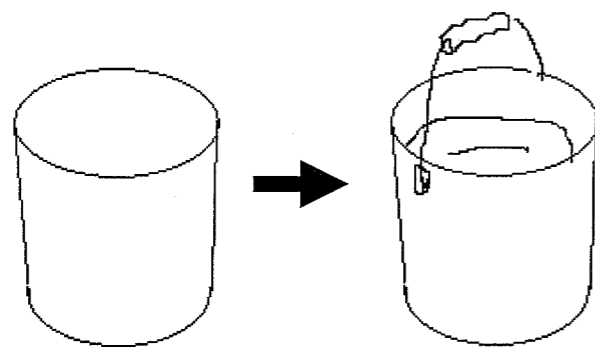
1. 素描基礎 (30 分)

請畫一 18x18 公分的圖框，以素描方式，畫出包含正立方體、圓柱體、圓錐體及球體四種基本形體各一，置於平面上，大小比例自訂，可自由安排構圖，材質為石膏，以光影表現出立體感。評分標準：1) 構圖 2) 光影表現 3) 筆觸。

2. 創意表現 (30 分)

請依範例在圓柱體圖形中加繪圖案，使其變成某樣物品，至少畫出 10 種構想 (圓柱體自行繪製、方向不限)。評分標準：1) 數量 2) 創意。

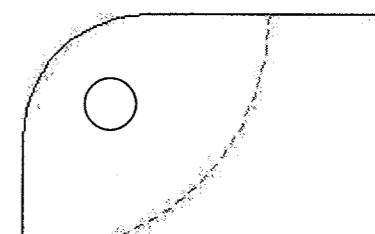
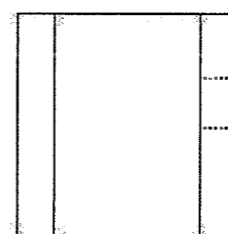
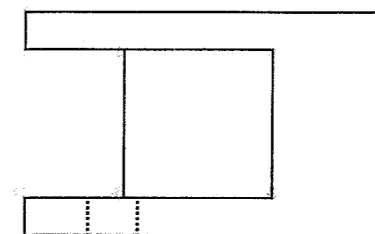
範例：



3. 圖學 (20 分)

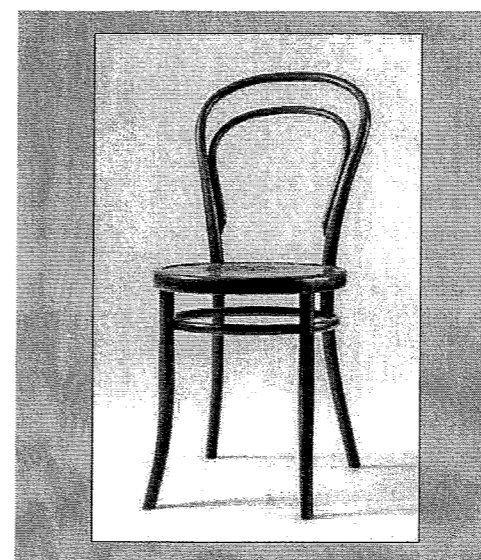
下列三面投影視圖是表示一件立體的工件，請將其轉畫成為立體圖。

請自行決定立體圖視角，但必須呈現所有造型特徵。評分標準：1) 圖形正確 2) 比例。



4. 設計認知及概念 (20 分)

請根據下列英文短文，評論 Thonet 的 14 號椅廣受歡迎的原因。



Worldwide, "No. 14" is one of the most successful products in the history of industrial mass production. It also established the international reputation of the Thonet Company. By 1930 over 50 million units of the chair had already been sold. In 1930 the price was DM 8.50 and this was the most reasonably priced model within the Thonet line. Even today it is being produced in modified form. Model "No. 14" was the first product utilizing bentwood technique. Efficient methods of manufacturing, a reduction in the individual parts of a chair, and finally the

development of its own distribution network via sales offices in all major cities around the globe enabled Thonet to develop into an international company. Thanks to the screwed connections, it was now possible to ship the chairs in their individual parts for final assembly at their destination. Thirty-six dismantled "No. 14" chairs could be packed in to a crate with a volume of only one cubic meter. Since the connections could be retightened as necessary, the lifespan of the chair was also enhanced as an added benefit.