

- 一. 印刷生產過程的方式, 主要有五種版式, 試述此五種版式的生產方式未來發展趨勢為何? 15%
- 二. 試述影響桌上彩色出版系統 (Desktop Publishing System) 的輸出品質的關鍵因素. 20%
- 三. 試述身為一個現代印刷廠品質管理部門主管應有的工作責任為何? 15%
- 四. 在九十年代裏, 印刷機持續朝向^{數位化}自動化操作方式的發展趨勢, 試述到目前為止, 印刷機自動化過程中, 有那些重要技術關鍵, 並請舉例說明. 15%
- 五. 試就一全國性發行的雜誌, 敘述其後加工作業連線處理的過程(附圖解)及特點. 15%
- 六. 解釋名詞. 20% (每題4分)
 1. Stochastic Screening.
 2. Device Independent Color
 3. Digital Data Exchange Standards (DDES)
 4. Rasterization
 5. EPS & TIFF File Format

中國文化大學八十三學年度研究所碩士班入學考試

所(組)別: 遠東印刷研究所
印刷組

考試科目: 工業管理
(印刷工廠管理)

20 points for each question

(共一頁)

1. Explain the following terms:

- 1). Configuration management
- 2). Manufacturing resources planning
- 3). Quality robust design
- 4). Breakeven analysis
- 5). Work sampling

2. Distinguish between dependent and independent demand in a McDonald's, in an integrated manufacturer of personal copiers, and in a stationery supply house.

3. Three new-product ideas have been suggested. These ideas have been rated as follows:

	Product			Weight (%)
	A	B	C	
1. Compatibility	4	2	2	10
2. Patent	2	2	4	20
3. Technical risk	1	2	4	10
4. Competitive edge	5	4	2	15
5. Producibility	1	2	3	20
6. Sale's prospects	4	5	3	10
7. Development cost	1	2	4	15

- a. Determine a weighted score for each product idea. What is the ranking of the three products?
- b. What are some of the advantages and disadvantages of this method of product selection?

4. You are going to start a new business. The activities and times required are given below:

Activity	(趕工成本) Expediting cost per day
	1 - 2
2 - 3	30
2 - 4	40
3 - 4	20
4 - 5	20
3 - 5	50

- a. Find the critical path and project completion time.
- b. What is the ES, LS, EF and LF for each activity?
- c. How much is the total slack?
- d. Suppose the project completion must be reduced by 1 day. The cost of expediting various activities are shown above. What should be done and how much will it cost?

5. A manufacturer of automobile carburetor is considering three locations - Taipei, Taichung, and Kaohsiung - for a new plant. Cost studies indicate that fixed costs per year at the sites are \$30,000, \$60,000 and \$110,000 respectively; and variable costs are \$75 per unit, \$45 per unit and \$25 per unit, respectively. The expected selling price of the carburetors produced is \$120. The company wishes to find the most economical location for an expected volume of 2,000 units per year.

中國文化大學八十三學年度研究所碩士班入學考試

所(組)別： 遠東印刷研究所
印 刷 組

考試科目： 計算機概論

1. (15%)

計算機硬體可分為幾大部份?

2. 請解釋下列子題中，各對名詞之相異性。

(5%) (a) *Microprocessor* 及 *Microcomputer*.

(5%) (b) *Main Memory* 及 *Auxiliary Storage*.

(5%) (c) *ROM* 及 *RAM*.

(5%) (d) *Interactive Processing* 及 *Batch Processing*.

(5%) (e) *System Software* 及 *Application Software*.

3. (15%)

請描述 *Sequential Files*, *Indexed Files*, 及 *Direct (or Relative) Files* 在儲存上及處理上之相異性。

4. (15%)

常見之資料庫系統有 *Hierarchical Database*, *Network Database*, 及 *Relational Databases*. 請比較其優缺點及異同點。

5. (15%)

一個資訊系統之發展可分為五大步驟: (1) *Analysis*, (2) *Design*, (3) *Development*, (4) *Implementation*, 及 (5) *Maintenance*. 請詳述每一步驟應完成之工作。

6. (15%)

結構化程式設計強調三個觀念: (1) *Modules*, (2) *Control Structures*, 及 (3) *Single Entry/Single Exit*. 請分別詳述之。

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