

國立台灣科技大學九十六學年度碩士班招生試題

系所組別：工業管理系碩士班乙組

科目：生產管理

總分 100 分

一、簡答題(30%)

1. Planning Bills
2. Green Manufacturing
3. Inventory Position
4. Quality Function Deployment(QFD)
5. 根據下列繪製 AOA(Activity-on-Arrow)

<u>Activity</u>	<u>Immediate Predecessor(s)</u>
A	-
B	-
C	-
D	A,B
E	C

二、(10%)ABC 分類中 A 類材料應採取何種存貨政策？應用 ABC 法管制材料有何缺點？

三、(10%)某公司本期固定成本\$10,000，直接人工每單位\$1.50，材料每單位\$0.75，銷售價格每單位\$4.0，試以銷售單位及金額表達損益平衡點。

四、(15%)請從存貨管理之觀點比較 BTS(Build to Stock), BTO(Build to Order), CTO(Configuration to Order)之異同。

五、(15%)請解釋 MRP (Material Requirement Planning), Master Scheduling, Aggregate Planning 及 Capacity Planning 並說明它們之間的相關性。

六、(20%) The following table shows orders to be processed at a machine shop as of 8 A.M. Monday. The jobs have different operations they must go through. Processing times are in days. Jobs are listed in order of arrival.

- a. Determine the processing sequence at the first work center using each of these rules: (1)FCFS, (2)S/O.
- b. Compute the effectiveness each rule using each of these measures; (1) average completion time, (2) Average number of jobs at the work center.

Job	Processing Time (days)	Due Date (days)	Remaining Number of Operations
A	8	20	2
B	10	18	4
C	5	25	5
D	11	17	3
E	9	35	4