

系所組別：土木工程學系戊組

考試科目：營建管理

考試日期：0307 · 節次：1

※ 考生請注意：本試題 可 不可 使用計算機

1. 解釋名詞 (35 分 各 5 分)

- (1) Work Breakdown Structure (2) Life cycle costing
 (3) Arbitration (4) Performance bond
 (5) Precedence diagram (6) Differing site conditions
 (7) Leadership in Energy and Environmental Design

2. What are Design-Bid-Build (DBB), Design-Build (DB), and Professional Construction Management in construction project delivery methods? (10 分)

What are the fixed price, cost plus a fee, and unit price methods used for construction project payment? (10 分)

How to combine these two sets of methods to achieve a better contracting strategy or reduce risks? (10 分)

3. Creating the network diagram should be viewed as a management exercise and an opportunity to bring together all the key players on the project to determine the best way to complete the project. 請說明此句隱涵的背景與意義 (15 分)

4. 某工程作業資料如下：(20 分)

作業	工期(天)	成本	後續作業及延時
A	4	400	C(SS 2), D(FS 2)
B	5	750	D(FF 2)
C	2	0	E(FF 5)
D	6	300	E(SS 2)
E	3	300	

- (1) 請畫出網圖，計算總浮時，找出要徑。
 (2) 畫出最早、最晚時間之成本曲線圖。