國立中央大學94學年度碩士班考試入學試題卷 共2頁第1頁所別:營建管理研究所碩士班一般生科目:營建管理

## 一、問答題(每小題10分,共50分)

A young engineer, who just graduated from a university with a master degree in construction engineering and management, is trying to start out his brand-new career in Taiwan. While facing intensive competition, constraints, and unknowns, he concluded that there are two alternatives leading to the goal: (i) seek an interesting and promising job; (ii) start over with a firm. Based on these alternatives, several concepts must be understood comprehensively as follows:

- 1. Change is inevitable in many construction projects. Explain how changes happen in a construction project (5分). Classify change orders based on their features and explain meanings for these classified change orders. (5分)
- 2. Please define what the feasibility analysis for a construction project is. (5 分) Also, a plot is required to illustrate how a typical feasibility analysis to be done. (5 分)
- 3. Project financing is as important as techniques for a construction project. Describe the sources and methods to perform project financing. (10 分)
- 4. Please list four essential documents, making up a construction contract. (3 分) What are the entries that an agreement must contain? (7 分)
- 5. A construction firm must involve accounting used to monitor its financial performance. One out of two important accounting documents, balance sheet, here is like a snapshot of the firm's financial condition. Please list the three major components of the balance sheet and also, provide two entries for each component. (10 分)

## 二、解釋名詞(每題5分,共30分)

- 1. Learning Curve
- 2. Project Overhead
- 3. Quantity Takeoff
- 4. Cost Slope
- 5. Bid Bond
- 6. Alternative Dispute Resolution

注:背面有試題

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## 三、計算題(每題10分,共20分)

1. 假設費用爲線性分配,即每日之花費爲一作業項目之所有費用除以該作業項目 之工期(每月以三十天計算),試繪下圖之S-Curve。(10分)

作業	費用(元)	1月	2月	3 月	18
A	300				47
В	600				
С	900		i yasari Nyangana ara-dah		
D	600		4		
Ε	300				

2. 已知某工程之作業名稱,後續作業,及工期如下表所示。請<u>列表</u>顯示各作業項目之最早、最晚開始與完成時間(ES, EF, LS, LF)、總浮時(TF),並標明在要徑上之作業。(10分)

作業項目	工期(天)	後續作業				
. A	5	F,H				
В	6	C,F				
C	10	E,G				
D	4	A,E				
Е	8	H,G				
F	7	G				
G	4	-				
H	5	-				