

第一部份：施工學（共五十分）

1. 說明下列名詞之特性及用途：（每小題 5 分，共 40 分）

- (A) Bentonite
- (B) Bank Volume
- (C) Cable-Stayed Bridge
- (D) Construction Specifications
- (E) Curtain Wall
- (F) Flexible Pavement
- (G) Slurry Wall
- (H) Tower Crane

2. 問答題：（10 分）

During construction, there are many factors that may influence and eventually reduce the strength of concrete. Please list five such factors and describe how to avoid them.

第二部份：工程估價（共五十分）

1. There are several types of cost estimating that are performed by different parties, with different scopes and purposes, in different phases of a construction project. Please describe these cost estimating types and make a comparison on their characteristics. (15 分)
2. You are performing cost estimate for an excavation job at the main gate of Chiang-Kai-Shek Memorial Park in Taipei. The excavation is 50m long, 10m wide and 5m deep. How much will be your quoting price? List all the necessary cost items and explain how you estimate them. (35 分)