

國立高雄應用科技大學  
九十七學年度碩士班招生考試  
土木工程與防災科技研究所（已組）

准考證號碼□□□□□□□□□□（考生必須填寫）

土木工程概論

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- 注意：a. 本試題共 5 題，每題 20 分，共 100 分。(5 problems, 20% for each, total 100%)  
b. 作答時不必抄題。(Write you answer on a separated answer sheet)  
c. 考生作答前請詳閱答案卷之考生注意事項。(Read instructions before you start)

1. Part of Kaohsiung Massive Rapid Transportation (MRT) system has started to operate recently. Please specify the impact of a MRT system to a metropolitan.
2. To fulfill obligations and avoid conflict between contractor and the owner, construction project must be processed under contract. Please list as many as possible the mandatory items in a construction contract.
3. Concrete and steel structural design concept has shifted from Allowable Stress Design (ASD) to Load and Resistance Factor Design (LRFD) or Limit State Design (LSD) in recent years. Use equations to define and explain both methods.
4. Please describe your expectation to learn from this Department, and how will it help to your future work.
5. A double-wall cofferdam is often designed as bridge pier. Draw a typical flow net for the figure below.

