

UNIVERSITY OF SOUTH AUSTRALIA
School of Geoinformatics, Planning and Building
Construction and Fire Engineering 1 (Construction Component) (10275)
and Building Construction and Materials 6 (05475)
Semester 1 examination, 1998

Instructions to Candidates:

You must answer QUESTION 1 and any 3 of the remaining 4 questions

OPEN BOOK Examination Time: 2 hours

Total Marks: 100 Lecturer: George Zillante

QUESTION 1: (COMPULSORY) 40 marks

Constructability is a concept that is being presented by some groups as “the best possible thing” for the Construction Industry whereas some sections believe that it is simply an old idea that has been repackaged to create an unnecessary allure.

Discuss the above statement and indicate (from your own experience and research) whether you agree or disagree.

QUESTION 2: 20 marks

The term “construction cycle” has been used by various groups within the Construction Industry. Discuss what you understand by the concept and indicate what benefits there are, if any, with adopting a construction cycle approach to long term planning.

QUESTION 3: 20 marks

Discuss what cladding system and material you would recommend for a ten storey rectangular office building located at the Glenelg foreshore.

QUESTION 4: 20 marks

Discuss what type of roof structure and materials you would recommend for a building with the following specifications:

- Exhibition Hall
- Column free space
- Span between walls 50m,
- Floor to ceiling height 20m
- Walls steel framed with metal deck cladding
- Maximum building height 40m
- Building is located on the Torrens Parade Ground in Adelaide

QUESTION 5: 20 marks

5a) Discuss what you consider to be the major factors that must be considered when designing a stormwater system for a multi-storey office building located in the City of Adelaide.

5b) Discuss the various fixing methods used to ensure that cladding systems do not allow the weather, etc to penetrate into a building.