

UNIVERSITY OF SOUTH AUSTRALIA
SCHOOL OF GEOINFORMATICS, PLANNING AND BUILDING
FIRST SEMESTER SUPPLEMENTARY EXAMINATION 1998
BACHELOR OF BUILDING
CONSTRUCTION MANAGEMENT 1N

Date of Examination: Monday 10 August 1998
Examiner: Professor Anthony Sidwell
Duration: 3 hours 6:00 - 9.00pm

General Instructions to Candidates

Write your name on the examination answer booklet

Candidates are required to attempt FIVE questions

All questions are of equal value

This examination counts for 50% of the assessment for the subject

This is a CLOSED book examination – no reference material is permitted

Question 1: (20 marks)

What are the major causes of accidents on construction sites and how can the industry's safety record be improved?

Question 2: (20 marks)

Describe the process by which a building contractor prepares an estimate and submits a competitive bid for a building contract.

Question 3: (20 marks)

Explain the three main aspects of project pre-planning:

- Method statement
- Preliminaries and site establishment
- Project Plans

Question 4: (20 marks)

The construction industry is subject to a number of historical, industrial and market forces that perpetuate the existing culture and management style, and inhibit the extent to which the industry can initiate change. A recent report suggested that the Australian Building industry is efficient by World standards.

Explain the organisation and development of the Australian Building industry and discuss whether you think the current efficiency is sustainable or not in the long term.

Question 5: (20 marks)

a) Draw a diagram of the traditional building process with the various phases.

With reference to this diagram, use it to explain the differences between the following procurement options, giving their advantages and disadvantages.

- b) Construction Management
- c) Design and Construct
- d) Cost Reimbursement

..../2

Question 6: _____ (20 marks)

Explain the following:

- a) The different roles played by the professional quantity surveyor and by the contract administrator. (10 marks)
- b) The role of the Architect and a Clerk of Works (10 marks)

Question 7: _____ (20 marks)

Illustrate the materials supply and installation process by means of a diagram and discuss how the Site Manager can minimise damage, unsuitable goods, double handling and other aspects that impact upon the incorporation of materials in a building.

Question 8: _____ (20 marks)

Discuss the important issues in industrial relations in construction such as +9+
+