

**The University of Melbourne
Semester 2 Assessment, 2006**

Faculty of Architecture, Building and Planning

Subject Number: 702-465
702-865

Subject Title: Environmental Systems

Exam Duration:2 hours

Reading Time:15 mins

This paper has 3 pages

Authorised materials:

Normal writing materials only are authorised.

Instructions to Invigilators:

This exam question paper may be removed from the examination room at the completion of the exam.

Each student will need to be given at least two examination answer booklets at the commencement of the exam.

Instructions to Students:

Candidates should attempt all 4 questions in Part A and 2 questions from Part B.
Answer Part A and Part B in SEPARATE ANSWER BOOKLETS

Lodging of paper with Baillieu library:

This exam paper can be lodged with the Baillieu Library after the completion of the examination period.

PART B

Attempt two (2) of the following four questions

QUESTION 5

25 MARKS

“The real crisis in water in Australia is excessive consumption.”

- a) Describe the issues facing Australia with regard to water and sustainability.
- b) Describe fully the innovative measures building owners are taking in environmentally sustainable buildings in respect of water systems.

QUESTION 6

25 MARKS

“Environmental assessment of buildings is a good way of measuring sustainability in our built environment.” Justify this statement.

QUESTION 7

25 MARKS

Alternate solutions in the Building Code of Australia allow designers and fire safety engineers to design appropriate tailor-made fire safety design for individual buildings. Using examples of buildings you are aware of explain in detail the fire engineered approach to design and describe fully the measures fire safety engineers commonly adopt in their designs.

QUESTION 8

25 MARKS

Smart or intelligent buildings represent the way we should design and occupy our buildings in the future. Discuss this statement.

This is the end of the examination paper