



the
UNIVERSITY
of
GREENWICH

EXAMINATION PAPER: **ACADEMIC SESSION 2006 / 2007**

Campus: **Avery Hill**

School: **Architecture and Construction**

Programmes: **BSc (Hons) Construction Business Management**
BSc (Hons) Construction Surveying Management
BSc (Hons) Real Estate

Course Code: **BUIL 1026**

Course Title: **TECHNOLOGY 1**

Level: **1**

Duration **2 hours**

Date: **15th May 2007, start 9.30 am**

INSTRUCTIONS TO CANDIDATES & FOR INVIGILATORS

Answer any THREE questions.

All questions carry equal marks.

Candidates must comply with the “Instructions to Candidates” printed on the examination answer book.

1. It is proposed to coat the outside of a solid masonry wall with water impervious paint to solve a recent apparent damp penetration problem in a domestic property built in the 1900's. Clearly explain why this may not be a suitable solution to the problem. Suggest possible reasons for the damp problem.

(33 marks)

2. Explain the function of thermal transmittance coefficients (U-values) in conserving fuel and power in buildings.

Use examples to illustrate your answer.

(33 marks)

3. Explain with the aid of diagrams the two main methods of domestic cold water supply used in the UK. Fully discuss the advantages and disadvantages of each system and consider how local regulations have tended to polarise opinion.

(33 marks)

4. Fully discuss the impact of common construction materials on the environment and consider how this could be reduced.

(33 marks)

5. Discuss the importance of selecting a suitable substructure for a given structural form in given soil conditions.

Use examples to illustrate your answer.

(33 marks)