



the  
UNIVERSITY  
of  
GREENWICH

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

**Campus**                              **Avery Hill**

**School**                                **Architecture and Construction**

**Title of Programme**              **BA (Hons) LANDSCAPE ARCHITECTURE**  
**BA (Hons) LANDSCAPE ARCHITECTURE with ARCHITECTURE**  
**BA (Hons) LANDSCAPE ARCHITECTURE with LANGUAGE**  
**BSc (Hons) LANDSCAPE MANAGEMENT**  
**BA (Hons) GARDEN DESIGN**  
**CERT in LANDSCAPE DESIGN**  
**HND / C LANDSCAPE MANAGEMENT**  
**HND / C GARDEN DESIGN**

**Level**                                 **Undergraduate**

**Academic Stage of the Course**   **1**

**TITLE OF PAPER**                    **HARD AND SOFT MATERIAL**

**COURSE CODE**                     **ENVT 1002**

**Date and Time**                    **Wednesday 9th May 2007, start 9.30 am**

**Duration**                            **3 hours**

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**Answer TWO questions from Part A and TWO questions from Part B. Use separate answer books for Part A and Part B. Ensure all parts of each question are answered. You should use diagrams / sketches where appropriate.**

**All questions carry equal marks.**

**Candidates must comply with the ‘Instructions to Candidates’ printed on the examination answer book.**

**Part A: Hard Landscape**

1. (a) Describe, using named examples the differences in the properties of hardwoods and softwoods  
(10 marks)

(b) Explain what methods can be used to increase the durability of softwoods in natural outdoor environments.  
(11 marks)

(c) Discuss the importance of moisture content in timber performance  
(4 marks)

2. (a) Using diagrams and sketches describe the differences between the following brickwork bonds:

Monk Bond

Quarter Stretcher Bond

English Bond

Flemish Garden Wall Bond

Stack Bond

Rat Trap Bond

(12 marks)

(b) Explain what is meant by the following terms:

coping,

faience,

struck and recessed profile mortar joints,

engineering brick,

foundation,

re-pointing.

(13 marks)

3 (a) Discuss how the selection of construction materials can be influenced by contextual and sustainability issues.

(5 marks)

(b) Choose three of the following materials and explain how their specific properties contribute to their use as a construction material:-

clay,  
bronze,  
granite,  
mild steel,  
oak,  
laminated glass,  
Portland stone,  
slate,  
stainless steel,  
pine,  
yorkstone.

(12 marks)

(c) Describe the importance of availability, aesthetics, durability and longevity when selecting a material for a project.

(8 marks)

**Continued/.....**

## Part B – Soft Landscape

4. Give a full description of microclimates commonly found in garden or landscape situations. Ensure that you highlight the drawbacks and potential offered by the different conditions, and make suggestions as to plants that may be suited to them.

(25 marks)

5. Shelterbelts and hedges perform important roles in the structure of landscapes and gardens. Give a full description of their potential design functions.

(25 marks)

6. Describe how the College Gardens and Grounds demonstrate the decorative qualities offered by plants.

Link your answer to seasonal change, and give named examples to illustrate your points.

(25 marks)