

NATIONAL UNIVERSITY OF IRELAND, GALWAY
Ollscoil na hÉireann, Gaillimh
3rd Year Biomedical Engineering, Spring 2002
3rd Year Industrial Engineering, Spring 2002
AN305 Human Structure

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Time allowed: Three hours

The examination consists of **two** sections

Answer THREE questions from Section A and THREE questions from Section B

SECTION A

Answer THREE questions in this section

Allow approximately **1 hour 30 minutes** for this section.

1. Write an essay on the cell.
2. Write an essay on thrombus formation.
3. Using anatomical evidence, describe the importance of sound anatomical knowledge in the research and development of a replacement organ.
4. Write an essay on a tissue type of your choice.
5. "The human body protects itself against attack, both internally and externally". Discuss, citing anatomical evidence in your answer.

SECTION B

Answer THREE questions in this section

Allow approximately **1 hour 30 minutes** for this section.

1. Write an essay on prosthetic hip joints.
2. Write an essay on the upper limb.
3. Write an essay on the cardiovascular system.
4. Discuss the following statement "The human body can be regarded as being a collection of complex tubes".
5. Describe three methods of assembling a tissue-engineered construct.