

National University of Ireland, Galway
Colaiste na hOllscoile, Gaillimh

Mechanical Engineering
Autumn Examination

Human Structure

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Time: Three Hours

The examination consists of two sections.

Answer all questions from Section A and three questions from Section B

SECTION A.

Answer ALL questions in this section.

Allow approximately 1 hour 30 minutes for this section.

1. Using both histological and gross anatomical evidence, outline the properties an artificial organ of your choice would need to possess for optimum function.
2. Write an essay on the anatomy of the LEFT SIDE of the heart, including the coronary circulation.
3. Write an essay on connective tissue.

SECTION B.

Answer THREE questions from this section.

Allow approximately 1 hour 30 minutes for this section.

1. Describe the anatomical structure of the nasal cavity, trachea, bronchi and bronchioles.
2. Write an essay on the anatomy of a typical long bone.
3. Write an essay on the general structure of a peripheral nerve.
4. Give a concise account of the histology of muscle.
5. Describe the human male's reproductive system.
6. Write an essay on the structure of blood vessels.