

UNIVERSITY COLLEGE LONDON

University of London

EXAMINATION FOR INTERNAL STUDENTS

For The Following Qualifications:-

B.Sc. B.Sc. (Intercal)

Genetics C201: Human Embryonic Development

COURSE CODE : GENEC201

UNIT VALUE : 0.50

DATE : 30-APR-03

TIME : 14.30

TIME ALLOWED : 3 Hours

HUMAN EMBRYONIC DEVELOPMENT – GENE201

30th April 2003

There are two sections to this exam.

The short answer section makes up 25% of the mark for this paper.

The essay section counts for 75% of the mark (25% each essay).

Section 1 - SHORT ANSWER SECTION

This section makes up 25% of your exam mark.

1. Write short notes on ALL of the following:
 - a. Fertilisation
 - b. The blastocyst
 - c. Somites
 - d. Lung development
 - e. Kidney development
 - f. Hox genes

Section 2 - ESSAY SECTION

Answer three essays from this section (25% each).

Each essay counts as 25% of the examination.

1. Outline male and female gametogenesis, paying attention to the differences between them.
2. Write an essay on Assisted Reproductive Technologies.
3. Describe the events leading to implantation, indicating likely causes of implantation failure.
4. Describe the normal and abnormal development of the brain and central nervous system, emphasising the genes that are involved.
5. Describe the normal and abnormal development of the heart, emphasising the genes that are involved.
6. Describe the normal and abnormal development of the limbs, emphasising the genes that are involved.

END OF PAPER