UNIVERSITY COLLEGE LONDON

University of London

EXAMINATION FOR INTERNAL STUDENTS

For The Following Qualifications:-

B.Sc. B.Sc. (Intercal)

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Genetics C201: Human Embryonic Development

COURSE CODE	: GENEC201
UNIT VALUE	: 0.50
DATE	: 28–APR–05
TIME	: 14.30
TIME ALLOWED	: 3 Hours

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TURN OVER

HUMAN EMBRYONIC DEVELOPMENT – GENEC201 28th April 2005

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. Embryonic stem cells
 - b. Gastrulation
 - c. Placenta
 - d. The limb bud
 - e. The abnormal kidney
 - f. HOX genes

Section 2 - ESSAY SECTION

Answer THREE essays from this section (25% each). Each essay counts as 25% of the examination.

- 1. Compare and contrast male and female gametogenesis.
- 2. Write an essay on Assisted Reproductive Technologies. What developments have occurred in the last 10 years?
- 3. Describe the development of the early embryo, starting at fertilisation and ending at the implanting blastocyst.
- 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 gonads, emphasising the genes and hormones that are involved.

END OF PAPER