UNIVERSITY COLLEGE LONDON

University of London

EXAMINATION FOR INTERNAL STUDENTS

For The Following Qualification:-

B.Sc. (Intercal)

Genetics C201: Human Embryonic Development

COURSE CODE	: GENEC201
UNIT VALUE	: 0.50
DATE	: 28-APR-06
TIME	: 10.00
TIME ALLOWED	: 3 Hours

HUMAN EMBRYONIC DEVELOPMENT – GENEC201 28th April 2006

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. meiosis
 - b. oogenesis
 - c. spermatogenesis
 - d. brain development
 - e. gut development
 - f. developmental genes

Section 2 - ESSAY SECTION

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

- 1. Describe the *in-vitro* development of an embryo from the zygote to the blastocyst stage.
- 2. Write an essay on Assisted Reproductive Technologies.
- 3. Describe the normal and abnormal development of the lungs, emphasising the genes that are involved.
- 4. Describe the normal and abnormal development of the kidney, emphasising the genes that are involved.
- 5. Describe the normal and abnormal development of the limbs, emphasising the genes that are involved.
- 6. Describe the normal and abnormal development of the heart, emphasising the genes that are involved.

END OF PAPER