

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-04

TIME : 14.30

TIME ALLOWED : 3 Hours

HUMAN EMBRYONIC DEVELOPMENT – GENE201

28th April 2004

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. gametogenesis
 - b. gastrulation
 - c. embryo folding
 - d. brain development
 - e. heart 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. Outline male and female infertility. What treatments can be used to help these patients achieve a pregnancy and what recent advances have been made?
3. Write an essay on implantation and the development of the placenta.
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 lungs, emphasising the genes that are involved.
6. Describe the normal and abnormal development of the gut, emphasising the genes that are involved.

END OF PAPER