

**UNIVERSITY COLLEGE LONDON**

University of London

**EXAMINATION FOR INTERNAL STUDENTS**

For The Following Qualification:-

*B.Sc. (Intercal)*

**Immunology C319: Neoplasia and its Treatment**

**COURSE CODE : IMMNC319**

**UNIT VALUE : 0.50**

**DATE : 21-MAY-04**

**TIME : 10.00**

**TIME ALLOWED : 3 Hours**

## C319 NEOPLASIA AND ITS TREATMENT

You should take approximately **60 minutes** for each essay and approximately **20 minutes** for each short note.

Please answer each question in a separate book and write the question number clearly on each front page.

The fraction of the marks allocated to each section is as follows:

Section A: 120/180

Section B: 60/180

The in-course assessment constituted 15% of the final mark.

**TURN OVER**

## C319 NEOPLASIA AND ITS TREATMENT

### SECTION A

Choose **TWO** essays from the list below:

1. Write an essay on the types of chromosome aberrations that we find in cancer and their genetic consequences.
2. In the first decade of the last century, Peyton Rous discovered a virus that causes fibrosarcoma in chickens. Discuss the significance (or otherwise) of his discovery for a cancer patient in the 21<sup>st</sup> century.
3. Write an essay on the role of stem cells in normal tissue homeostasis and in tumourigenesis.
4. Does the immune system protect us from cancer? Discuss.

### SECTION B

Write short notes on **THREE** of the following.

1. Mechanisms involved in tumour invasion and metastasis.
2. Epidemiology of cancers associated with papillomavirus.
3. Advantages of gene therapy in treatment of cancer.
4. How do cancer cells override cell cycle regulation in the G1 phase?
5. Define what is meant by the terms hyperplasia, dysplasia, metaplasia and neoplasia.
6. The steps involved in base excision repair.

**END OF PAPER**