

UNIVERSITY COLLEGE LONDON

University of London

EXAMINATION FOR INTERNAL STUDENTS

For The Following Qualifications:–

B.Sc. B.Sc. (Intercal)

Immunology C317: Pathology of Chronic Disease including Infection and Autoimmunity

COURSE CODE : **IMMNC317**

UNIT VALUE : **0.50**

DATE : **17-MAY-04**

TIME : **10.00**

TIME ALLOWED : **3 Hours**

**C317 PATHOLOGY OF CHRONIC DISEASES (INCLUDING INFECTION
AND AUTOIMMUNITY)**

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

**C317 PATHOLOGY OF CHRONIC DISEASES (INCLUDING INFECTION
AND AUTOIMMUNITY)**

SECTION A

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

1. The pathogenesis, diagnosis and treatment of amyloidosis.
2. Compare and contrast the pathogenesis of Hashimoto's disease and Graves' disease.
3. What are the immunopathological features of the granulomatous response? Discuss the different molecules that are implicated in the pathogenesis of this form of tissue reaction.
4. Discuss how regulatory T cells influence the outcome of parasitic infections.

SECTION B

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

1. The immune evasion strategies of Leishmania.
2. The autoantigens associated with systemic lupus erythematosus.
3. Genetic factors in cardiovascular disease.
4. Why the blood-brain barrier is an important component in the pathogenesis of many diseases of the CNS.
5. Mutations in the genes encoding collagens often have detrimental consequences resulting in severely crippling diseases. Discuss how these mutations can lead to pathology.
6. Discuss the role of CD8⁺ T cells in Hepatitis B virus control and pathogenesis.

END OF PAPER