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	:	**15-MAY-06**
TIME	:	**10.00**
TIME ALLOWED	:	**3 Hours**

TURN OVER

IMMNC317 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

SECTION A

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

1. Discuss and contrast the fatty streak with the fibrous atherosclerotic lesion.

2. How is the interaction of T cells with B cells relevant to the pathogenesis of SLE?

3. The immune system's response to malaria can both protect and cause harm. Discuss this paradox.

4. Discuss the factors that allow herpes viruses to maintain latent infections in the host, and how reactivation occurs so the virus can spread from one host to another.

5. "Inflammation is a common feature of several different types of lung disease." Discuss this statement, giving examples of how the type of inflammation that is present determines the nature of the resulting pathological syndrome.

6. Discuss how biological based therapies have revolutionised the treatment and understanding of chronic inflammatory disease.

SECTION B

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

1. Distinguish the immunological and thyroid functional aspects of destructive (Hashimoto's) thyroiditis and hyperthyroid Graves' disease.

2. Why is the apoE knock out mouse a good model for atherosclerosis?

3. Current methods for assessing virus-specific T cell responses.

4. The features of cerebral amyloidosis.

5. Natural defences of ocular tissues.

6. How intracellular Leishmania modify the function of macrophages.

7. Heritable disorders of connective tissue.

8. Role of interferon in mycobacterial disease.

END OF PAPER