UNIVERSITY COLLEGE LONDON

University of London

EXAMINATION FOR INTERNAL STUDENTS

For The Following Qualifications:-

B.Sc. *M.Sci.*

Immunology B1: Immunity to Infection

COURSE CODE	:	**IMMNB001**
UNIT VALUE	:	**0.50**
DATE	:	**06-MAY-03**
TIME	:	**14.30**
TIME ALLOWED	:	**2 Hours**

03-C0767-3-150

TURN OVER

B1 IMMUNITY TO INFECTION

Candidates must answer **Sections A, B and C**.

Complete your answers to **Section C on the question paper and attach this securely to your answer books**.

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

Section A: 20/80
(**essay**, 1 out of 4)

Section B: 40/80
(**short notes**, 6 out of 10)

Section C: 20/80
(**MCQ**, answer all questions)

TURN OVER

SECTION A

Discuss **ONE** of the following statements:

1. The structures of immunoglobulins allows them to fulfil several functions in immune responses.

2. Successful pathogens have evolved several ways of avoiding the activities of phagocytes.

3. The adaptive immune response to bacteria may cause significant damage to the host.

4. All potential vaccines must satisfy stringent conditions before use in humans.

SECTION B

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

1. Anti-microbial substances at external surfaces.

2. Types of virus structure.

3. Bacterial exotoxins.

4. Cytotoxic T-lymphocytes.

5. Major histocompatibility complex (MHC) molecules.

6. Type I hypersensitivity ('allergy').

7. Acquired Immunodeficiency Syndrome (AIDS).
(Details of HIV structure and replication cycle are NOT required.)

8. African trypanosomiasis ('sleeping-sickness').

9. Schistosomiasis.

10. 'New' vaccine types under development.

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