

**UNIVERSITY COLLEGE LONDON**

University of London

**EXAMINATION FOR INTERNAL STUDENTS**

For The Following Qualification:–

*B.Sc.*

**Immunology B222: Medical Microbiology**

**COURSE CODE : IMMNB222**

**UNIT VALUE : 0.50**

**DATE : 25-MAY-05**

**TIME : 10.00**

**TIME ALLOWED : 3 Hours**

**IMMNB222 MEDICAL MICROBIOLOGY**

Candidates must answer **FOUR** questions, **TWO** from each **SECTION**.

Please answer each section in a separate answer book.

All questions carry equal weighting

**TURN OVER**

## IMMNB222 MEDICAL MICROBIOLOGY

Answer **FOUR** questions, **TWO** from each SECTION.  
Answer each question in a separate answer book.  
All questions carry equal weighting.

### SECTION A

1. Discuss the means by which human viral infections are diagnosed in the clinical laboratory, illustrating your answer with appropriate examples.
2. Using named examples, describe the consequences of virus-receptor interaction.
3. Discuss the uses of passive immunisation, and its advantages and disadvantages compared to active (conventional) immunisation.
4. A new viral haemorrhagic fever has been discovered in the Far East; describe the processes you would follow to a) identify the virus and b) control its spread.
5. Describe the types of persistent infections caused by hepatitis B. How does the relationship between virus and host change with time.

### SECTION B

6. Using specific examples, describe how the human commensal microflora may cause disease.
7. Briefly describe the major molecular mechanisms which enable bacteria to be resistant to antibiotics giving an example for each.
8. Describe the occurrence, structure and composition of bacterial biofilms. Give examples, and descriptions, of biofilms associated with diseases in man, and discuss the problems associated with their treatment.
9. Discuss this statement: "Food poisoning is an emerging modern epidemic", and describe the various pathogenic mechanisms by which microbes cause food poisoning. How may infection be prevented?

**END OF PAPER**