



DATE: Saturday 9th July 2011 **TIME:** 11.00a.m – 1.00p.m

Answer ALL questions in section A and only ONE question in Section B. Answers in Section A should be written in the spaces provided in the question paper.

1. Describe briefly Koch's postulates.
2. Compare and contrast prokaryotic and Eukaryotic cell properties.

3. Using illustrations list five of some of the bacterial shapes.
4. Outline the Gram staining technique.
5. Explain the use of ultra violet radiations in sterilization

6. List five of some of the properties used in classification of viruses.

7. Describe the structure of the Gram negative cell wall.

8. Explain, what are single cell proteins.

SECTION B

1. Describe the bacterial cell and the functions of each of the structures.
2. Briefly describe streaking techniques in bacterial cultures and how bacterial smears are fixed.
3. Discuss the common ingredients found in many bacterial culture media.