



**KENYATTA UNIVERSITY**  
**UNIVERSITY EXAMINATIONS 2010/2011**  
**INSTITUTIONAL BASED PROGRAMME (IBP) AUGUST SESSION**  
**EXAMINATION FOR THE DEGREE OF MASTER OF SCIENCE**  
**SBT 518: MICROBIAL PHYSIOLOGY**

**DATE:** Tuesday 3<sup>rd</sup> January, 2012

**TIME:** 9.00 a.m. – 12.00 p.m.

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**INSTRUCTIONS:**

*Answer Any FOUR Questions.*

- Q.1) Describe how bacteria have been grouped on the basis of energy and carbon sources required in their metabolism.
  - Q.2) Discuss the effects of ionizing radiation on the physiology of micro-organisms.
  - Q.3) Discuss the classification of antimicrobial agents and explain how they work.
  - Q.4) Briefly describe the standard growth curve of bacteria and how the declining phase has been used to produce secondary products of economic importance.
  - Q.5) Write an essay on ribosomes in prokaryotes and their role in protein synthesis.
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