86 學年度 國立成功大學 生物 所 微生物學 試題 共 / 頁

- I. Answer the following questions: (60%) (1-6 8% each, 7 12%)
 - 1. Describe a bacterial growth curve and discuss why a culture might have a long lag phase of growth after inoculation.
 - 2. Give an experiment that can be used to determine microbial drug sensitivity (MIC & MLC values).
 - 3. What is the " archaeobacteria"? Describe the major groups.
 - 4. List major characteristics used in classifying viruses.
 - 5. Describe the characteristics of a bacterial plasmid and discuss the major types of bacterial plasmids.
 - 6. What is an "Oncology "? Give a brief description of "tumor immunity ".
 - 7. Comparison of T cells and B cells involved in the immune response.
- 11. Describe the following terms or microorganisms: (40%)
 - 1. Proton motive force
 - 2. Prototroph
 - 3. Replica plating
 - 4. Spheroplast
 - 5. Mol% G + C
 - 6. Diauxic growth
 - 7. Biochemical oxygen demand (BOD)
 - 8. Campylobacter pylori
 - 9. Legionella pneumophila
 - 10. Bergey's Manual