PART I: MARK THE RIGHT ANSWER, AND REMEMBER THAT, IN SOME QUESTIONS, YOU HAVE TO CHOOSE THE BEST ANSWER.

1. Regarding interferons, which of the following statements is INCORRECT?
   a) They have antiviral and anti-oncogenic properties.
   b) They activate macrophages and natural killer lymphocytes.
   c) They are produced and secreted by cells in response to viral or bacterial infections and to synthetic or biological inducers (e.g. IL-2, IL-12 and TNF).
   d) They down-regulate MHC I and II, and thus inhibits presentation of foreign peptides to T cells.

2. Clavulanic acid is ……
   a) effective against HBV infection.
   b) a beta-lactamase inhibitor.
   c) an anti-seudomonal penicillin.
   d) useful in the treatment of intrinsically amphotericin-resistant organism.

3. All of the following statements concerning zidovudine are true EXCEPT that:
   a) It is a deoxythymidine analog.
   b) It is an antiretroviral agent that is approved for treatment of HIV.
   c) It has potent antibacterial activity against anaerobic infections.
   d) Patients taking this drug may suffer from anemia and neutropenia.

4. After the first phase of the action potential in nerve cell, the i) ________ channels become inactivated while the ii) ________ channels begin to open:
   a) i) sodium, ii) potassium.
   b) i) calcium, ii) sodium.
   c) i) sodium, ii) calcium.
   d) i) potassium, ii) sodium.

5. Ketoconazole ……
   a) is an antifungal drug.
   b) inhibits fungal cell membrane ergosterol synthesis.
   c) may be useful in the treatment of intrinsically amphotericin-resistant organism.
   d) All of the above.
PART II: MARK (A) IF THE SENTENCE IS TRUE OR (B) IF IT IS FALSE.

6. Acyclovir is cleared primarily by glomerular filtration and tubular secretion.
7. The incidence of immediate-type allergic reactions to the cephalosporins is increased among patients known to be allergic to penicillins.
8. First-generation cephalosporins have a broader bacteriologic spectrum than do the second-generation agents.
9. Oral penicillins are best given on an empty stomach to avoid the absorption delay caused by food.
10. Penicillin G is eliminated primarily by renal tubular secretion, and this secretion can be inhibited by probenecid.