1. Define “efficacy” when used in relation to medications.

   ANSWER: a medication’s ability to produce the desired therapeutic effect

2. What are the correct medical terms for the abnormal lab values listed below?
   a. Elevated serum potassium  hyperkalemia
   b. Decreased serum potassium hypokalemia
   c. Elevated serum sodium hypernatremia
   d. Decreased serum sodium hyponatremia
   e. Elevated BUN (blood urea nitrogen) azotemia / uremia

3. Which cranial nerve is associated with auditory function?

   ANSWER: Cranial Nerve VIII - (Vestibulocochlear)

4. Treating an infection prior to availability of culture results is ___________ spectrum therapy.
   a. Broad ANSWER
   b. Narrow

5. Super-infections are more likely to occur with ___________ spectrum anti-infective therapy because normal body flora are killed.
   a. Broad ANSWER
   b. Narrow

6. The medical term for “hives” is __________.
   a. pruritus
   b. urticaria ANSWER
   c. allergica
   d. dermatitis

7. Which medication would be the most effective for thrush?
   a. penicillin
   b. Zovirax® (acyclovir)
   c. Mycostatin® (nystatin) ANSWER (Note: oral suspension)
   d. Septra® (sulfamethoxazole-trimethoprim)

8. Most antibiotics when taken by a patient who also takes Coumadin® (warfarin) will put the patient at high risk for:
   a. hemorrhaging ANSWER (INR and PT are likely to be elevating.)
   b. blood clot formation

9. Which group of anti-infectives has a strong affinity for calcium?
   ANSWER: tetracyclines

10. Discoloration of the teeth is associated with which anti-infective?
    a. Keflex® (cephalexin)
    b. Amoxil® (amoxicillin)
    c. Mycostatin® (nystatin)
    d. Achromycin® (tetracycline) ANSWER
11. What are the indications for aminoglycosides?
   ANSWER: See Student Version of Anti-infectives.

12. Is Coumadin® (warfarin) likely to interact with aminoglycosides? If so, what would be the most likely result?
   ANSWER: See Student Version of Anti-infectives.

13. Use your Drug Information Handbook for Dentistry by Wynn and the website http://www.rxlist.com to answer the following questions.
   a. What is Actisite® (tetracycline hydrochloride) periodontal fiber?
   b. What is its availability in the U.S.?
   ANSWER: According to the website: http://www.rxlist.com, the brand is no longer available in the U.S. Generic forms may be available. This will not be on the quiz.

14. What common food is useful in preventing super-infections when taking antibiotics?
   ANSWER: yogurt

15. List common adverse reactions to aminoglycosides.
   ANSWER: See Student Version of Anti-infectives and text by Woodrow.

16. What specific instructions should be given to a patient who will be using the preferred drug to treat thrush?
   ANSWER: See the specific drug in text or http://www.rxlist.com

17. List factors used to select a specific anti-infective agent.
   ANSWER: See Student Version of Anti-infectives

18. What is the normal range for creatinine?
   ANSWER: See Drug Handbook by Wynn, page 1639. Note that values differ slightly by gender.

19. What is the normal range for BUN (blood urea nitrogen)?
   ANSWER: See Drug Handbook by Wynn, page 1639.

20. Which body system most often shows signs/symptoms of adverse reactions to anti-infectives?
   ANSWER: gastro-intestinal

21. Use your Drug Information Handbook for Dentistry by Wynn to answer the following questions regarding Vibramycin® (doxycycline - systemic).
   a. What is the subclassification of anti-infectives for this drug?
   b. Are there any specific dental uses?
   c. What are the indications (uses)?
   d. Are there any effects on dental care? If so, what are they?
   e. What are the common adverse reactions?
   f. What drugs/agents are likely to decrease the effectiveness?
   g. What are the dietary considerations?
   h. What is the most common route of administration?
22. What is Atridox®?

**ANSWER:** See Drug Handbook by Wynn, page 460.

23. What is Periostat®?

**ANSWER:** See Drug Handbook by Wynn, page 456. Note: Periostat® is listed as a Canadian brand name.

24. Study the Student Version: Anti-Infectives and pages 305-306 in your text by Woodrow to answer the following questions regarding tetracyclines.

   a. Indications
   b. Side effects?
   c. Contraindications and warnings?
   d. Interactions?
   e. Patient education?
   f. Are there any special considerations for females taking oral contraceptives?