Chapter 20: Book Questions

Review: pg 574

7) Broth Dilution tests the minimum concentration of antibiotic to be used.

Both require a subculture to determine if they are bacteriocidal

Disk Diffusion tests whether a given concentration of antibiotic is effective against bacterial growth

8) Disk diffusion test the effectiveness of various antibiotics when treating bacterial infections. you can obtain whether a drug would be appropriate to perscribe depending on the zone of inhibition when compared to a table.

9). Drug Resistance = when microbes evolve to render antibiotics/treatments ineffective.

- can be produced naturally by bacteria or through human actions.
- minimize by:
  1) only using prescriped antibiotics
  2) taking full prescriptions
  3) never using old/left over antibiotics
  4) never sharing antibiotics
  5) preventing infections.

10). The combined effects of synergism can make antibiotics more effective in smaller concentrations while decreasing chances of resistance building.

- cons: increased risk of side-effects + allersies →

10) as well as destruction of normal flora due to increased chances of broad spectrum effect.

MC -pg 574-575

5) A
6) D
8) A

CT pg 575

4) a) Can't tell, you need a chart to compare zone of inhibition sizes to determine S, I, or R.
b) same as a.
c) you don't know unless a 2nd test, sub-culture, is performed.

6) a) 50ug
b). 100ug