IV Therapy – from Potter and Perry pages 971-973

Quickly read the following excerpt from the Potter and Perry textbook. Answer the following questions. Short answers are fine; full sentences are not necessary.

1. What are the three main types of IV solutions, and what is the difference between them?

Hypertonic -- higher osmotic pressure – pulls fluid from cells, causing them to shrink.
Isotonic – same osmotic pressure as plasma – expands body’s fluid volume without causing a fluid shift from one compartment to another
Hypotonic – osmotic pressure lower than plasma – moves fluid into the cells, causing them to enlarge

2. What is a cannula?

Plastic tubing threaded over a needle

3. Does a large gauge indicate that the cannula size is large or small? small

4. What size of cannula should you use? The smallest possible, i.e. 22 to 24 gauge

5. Why shouldn't you place an IV in a patient's arm if the site is red and swollen?

Infection – danger of introducing bacteria from the skin surface into the bloodstream

6. How do you know what flow rate to use? prescriber’s orders

7. What happens if your flow rate is too slow? Further cardiovascular and circulatory collapse in a critically ill patient. Also the fluid can clot more easily.
CLB Objectives:

1. Use effective time management strategies
2. Use organizational skills and knowledge of mnemonics to organize large quantities of information with the purpose of recall.
3. R8 -- Understands extended, moderately complex, multistep instructions and instructional texts for established procedures related to specialized tasks.
4. R8 -- Understand moderately complex extended descriptions, feature articles, reports and narrations.
5. W8 -- Reduce oral discourse about established procedures into notes that can be used to write instructions. Reduce a text of up to about 2 pages to an outline or summary.
6. S8 -- Give instructions and directions for a broad range of technical and non-technical tasks, procedures and processes. Uses correct sequence of steps. Uses clear references and