

**PHAR 632**

**Workshop Team Assignment**

Please answer all six questions and turn in one answer sheet per team on Tuesday December 8th, 2015 at 9:15 (prior to our lecture start) please submit with this question sheet or type in the question. **Answers must be typed in, handwritten answers will not be accepted. No exceptions).**

All team members should know the answers, expect to be asked to present the answers in class.

**The following two questions are related**

The amoxicillin monograph states that the reconstituted suspension is stable for 14 days in a refrigerator at 5◦C. Assume Q values as 3.

1. How long will the drug be stable at 37◦C? (show your calculations).
2. How long will the drug be stable at 25◦C? (show your calculations).

Note: t90(T2) and t90(T1) are the expiration times at temperature T2 and T1

As a pharmacist you are asked to compound the following prescription

**Rx 1 : Aspirin Suppositories**

Aspirin **200** mg

Polyethylene glycol 2000 qs

M. Ft: Rect. supp.; No. X

**Sig:** 1 supp PR q12hr PRN

**You have 2 ml mold capacity**

**Note:** From Remington:

Polyethylene glycol base is assumed to have a density factor of 1.3 relative to cocoa butter.

The density factor of Aspirin to cocoa butter is 1.3

Density of PEG is 1.1

1. Using this information calculate the amount of PEG 2000 and Aspirin needed for the prescription. (Show your calculations)

**The following three questions are related**

As a pharmacist you were asked to compound the following prescription

**Rx 2 : Progestrone Suppositories**

Progesterone 85 mg

Base of choice qs

M. Ft: Rect. supp.; No. X

**Sig:** 1 supp vaginally qhs for 7 days

1. As a pharmacist you understand that progesterone is a lipophilic drug, which of the following bases would you choose and **why?**
   1. Cocoa Butter
   2. Polyethylene glycol 2000
2. The density factor of Progesterone in cocoa butter is 0.87, you will need to factor in the density factor in your calculation is this True or False and **why?**
3. True
4. False
5. You would advise patient to store suppositories in the refrigerator is this True or False and **why?**
6. True
7. False