

Course No: BIPH 2216
Course Title: Physical Pharmacy (2)
Date: 12/03/2018
No. of Questions: (4)
Time: One hour
Using Calculator (No)

University of Palestine



1st Exam For 2nd Sem.
2017/2018
Total Grade:

Instructor Name: Nahed Hegazy, PhD
Student No.: _____
Student Name: _____
College Name: Pharmacy
Dep. / Specialist: ____ - _____
Using Dictionary (No)

Question One:

Put True or False and Correct the false answer if any:

1. The zwitterionic surfactants possess both positively and negatively charged groups and can exist as either an anionic or a cationic surfactant depending on the pH of the solution.
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2. Chemical interactions between the excipients and the drug can sometimes occur and these lead to a decrease of stability.
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3. It is often possible to predict which drugs are likely to decompose by looking for specific chemical groups in their structures.
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4. To calculate the shelf-life it is necessary to know the rate constant at the storage temperature.
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5. Isomerisation is the process by which two or more identical drug molecules combine together to form a complex molecule.
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6. Steroids, sterols and the ether group in drugs such as econazole nitrate and miconazole nitrate is susceptible to hydrolysis.
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7. Many decomposition reactions in the solid phase or in suspensions apparently follow first-order kinetics.
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8. The oxidative degradation of some drugs in solution may be pH dependent but the photo degradation of all drugs is pH independent.
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9. The method that is used for accelerated storage testing is based on the Brønsted–Bjerrum equation.
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10. Surfactants have two distinct regions in their chemical structure, one of which is hydrophilic and the other of which is hydrophobic and these surfactants are generally classified according to the nature of the hydrophilic group.

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Question Two:

What are the differences between;

1. Sodium lauryl sulphate and Polysorbates?

2. Zero - order reaction and first - order reaction?

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Question Three:

1. In the pharmaceutical dosage forms, how we can stabilize the drugs against;

A. photochemical decomposition?

B. Oxidation?

2. What are the significant changes at the accelerated stability condition in the case of drug products?

