Course No: PHRM 2219

**Course Title: Physical Pharmacy (2)** 

Put <u>True</u> or <u>False</u> and <u>Correct</u> the false answer if any:

degradation of all drugs is pH independent.

Date: 26/10/2017
No. of Questions: (4)
Time: One hour
Using Calculator (No)

#### **University of Palestine**



## First Midterm Exam

**2017/2018 Total Grade:** 

Instructor Name: Nahed Hegaz	y,PhD
Student No.:	
Student Name:	
College Name: Pharmacy	
Dep. / Specialist:	
Using Dictionary (No)	

#### **Question One:**

1.	Isomerisation is the process by which two or more identical drug molecules combine together to form a complex molecule.
2.	It is often possible to predict which drugs are likely to decompose by looking for specific chemical groups in their structures.
3.	To calculate the shelf-life it is necessary to know the rate constant at the storage temperature.
4.	Experimentally we can monitor the rate of breakdown of the drug either by its decrease in concentration with time or alternatively by the rate of appearance of one of the breakdown products.
5.	Steroids, sterols and the ether group in drugs such as econazole nitrate and miconazole nitrate is susceptible to oxidation.
6.	The chemical stability of active ingredients incorporated into ointments or creams is frequently independent on the nature of the ointment or cream base used in the formulation.
7.	Many decomposition reactions in the solid phase or in suspensions apparently follow first-order kinetics.

8. The oxidative degradation of some drugs in solution may be pH dependent but the photo

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le:
ting is based on the Brønsted–Bjerrum equation.
ent of the initial concentration of the reactants.
rder kinetics of chemical breakdown
wwe can stabilize the drugs against;

Course No: PHRM 2219

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Date: 26/10/2017 No. of Questions: (4) Time: One hour Using Calculator (No) **University of Palestine** 



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# **Question Three:**

### What are the differences between;

1. Long-term stability test and accelerated stability test?

2. First - order reaction and second - order reaction?

Course No: PHRM 2219

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Date: 26/10/2017 No. of Questions: (4) Time: One hour Using Calculator (No) **University of Palestine** 



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Dep. / Specialist:	
Using Dictionary (No)	-

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1. Mention the factors influencing drug stability of liquid dosage forms.

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

End of Questions *Good Luck*