

**Advanced Organic Chemistry  
Laboratory.**

(447 Chem)

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### List of Experiments

Week	Exp.no	Experiment	Page
Safety			
<b>First Part- Natural Products</b>			
1	-	Introduction	
2	1	Phytochemical screening	
3	2-1	Isolation of Volatile Oil Isolation of Clove Oil by Extraction.	
	2-2	Isolation of Thymus Oil by Extraction.	
	2-3	Isolation of Salvia Oil by Extraction.	
	2-4	Isolation of Orange Oil by Filtration or Pressure Method	
4	-	Q1	
	3	Flavonoids extraction	
5	4	Alkaloids extraction	
6	-	Mid 1 (30 Marks)	
<b>Second Part- Organic Synthesis</b>			
7	5	Preparation of Acetanilide	
8	6	Preparation of p-bromo acetanilide	
9	7	Preparation of t-butyl chloride	
10	8	Preparation of Aspirin	
11	9	Preparation of Methyl Orange	
12	10	Preparation of Anthracene-9.10-endo- $\alpha$ , $\beta$ -Succinic Anhydride by Diels-Alder Reaction	
13	-	Final (40 Marks)	

### Grading

Marks	Description
15	Reports and attendance
5	Evaluation
10	Quiz 1
30	Mid 1 (Natural product)
40	Final exam (Natural product and Synthesis)
100	

Dress Appropriately (for chemistry lab, not fashion or the weather)		
Wear lab coat.	 Lab coats must be worn in this area	ارتداء المعطف الخاص بالمعمل.
Wear gloves.		ارتداء القفازات.
Tie long hair back.	 TIE BACK LONG HAIR	ربط الشعر و تغطيته.
Wear shoes which cover and protect your feet completely.		ارتداء حذاء مريح ويغطي القدم.
no contact lenses	<b>NOTICE</b> NO CONTACT LENSES BEYOND THIS POINT	عدم وضع العدسات
Wear safety goggles.	 Wear glasses	ارتداء النظارات الواقية.
Do not wear valuable jewelry while working in the lab.	 NO JEWELRY	عدم وضع مجوهرات.
Don't Eat or Drink in Lab	 NO FOOD OR DRINK IN THIS AREA	ممنوع الأكل و الشرب.
Wash your hands as often as possible, especially before leaving the lab.		غسل اليدين بكثرة خاصة قبل الخروج من المختبر.