

# BCH 447

## [Practical Metabolism]

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# Course Description

- A selection of metabolic experiments that include metabolism of carbohydrates, lipids, and proteins .

	Title of the Experiments
1	Triglycerides Determination
2	Total and HDL-Cholesterol determination
3	Lipase Assay Using Turbidimetric Method
4	Isolation of Glycogen from liver
5	Enzymatic Hydrolysis of Glycogen and Determination of Glucose
6	Oral glucose tolerance test (GTT)
7	D- Xylose Absorption Test
8	Estimation of Serum Urea
9	Estimation of Glutathione in Plasma

# Mark Distribution

	Marks	
Conducting the experiment	5 Marks	
Report	15 Marks	
Quiz	15 Marks	
Midterm (25 Marks)	Practical	15 Marks
	Theoretical	10 Marks
Final (40 Marks)	Practical	25 Marks
	Theoretical	15 Marks
<b>Total</b>	<b>100 Marks</b>	

**Date of midterm exam:**

19/ 6 /1439 H - 7/ 3/2018

**Date of final exam:**

2/ 8 /1439 H – 18/ 4 /2018

# How to write a scientific report?

- The laboratory reports should contain the following sections:
  - Title
  - Objectives
  - Brief Introduction [ **Theoretical background information** ]
  - Materials and Methods [ **As seen in the lab sheet** ]
  - Results [ **Tables, Graphs and Calculations** ]
  - Discussion
    - In this section you are required to describe of what happened in the experiment **(Principle)**, explain your results and make conclusions by comparing your results to expected values
    - Even if you obtained unexpected results, the discussion section is the section to justify or explain the reasons why you have obtained such results.
  - Questions

# Science Lab Safety



- **In case of acid or base contact with your skin**, wash it with large amount of clean, cold water and inform the instructor immediately.
- **Do not handle broken glassware** with your bare hands.
- **Do not eat, drink**, or chew gum in the laboratory.
- **Do not charge your mobile phones** in the laboratory.
- Do not depart from the lab leaving an experiment unattended. If you need to leave the lab you must inform your instructor before leaving the lab.
- You must **wash your glassware and hands** with soap after finishing the experiment.



http://www

Download of ALL the lectures and Lab sheet from website:

<http://fac.ksu.edu.sa/naljebrin>

**Good luck**

