**Practical Metabolism ( BCH 447 )**

**Credits :** 2 ( 0 + 2 )

**Prerequisite :** BCH 340

**Experiments**

1- Isolation of rabbit liver glycogen.

2- Enzymatic & acid hydrolysis of glycogen.

3- Enzymatic & acid hydrolysis of protein ( casein )

4- Hydrolysis of lipids.

A . Determination of saponification number of lipids

B . Enzymatic hydrolysis

5- Localization and study of the properties of some dehydrogenases in mammalian tissue.

A . localization and inhibition of succinate dehydrogenase.

B . NAD-dependent dehydrogenases in mitochondria.

C . Co-enzyme requirement and location of lactate dehydrogenase.

6- Glycolysis in yeast I

7- Glycolysis in yeast II ( determination of metabolic intermediates )

A . Test for pyruvate detection

B . Test for acetaldehyde detection

**Scores**

Quizzes = 25 %

Reports = 25 %

Performance & discipline = 10 %

Final exam = 40 %

Total = 100 %

**Office : 60 A 2 Email : Ahjalzahrani@ksu.edu.sa**