

# **GUIDED READING**

## **Chapter 9: Metabolism**

### **Objectives**

The objectives of this section is to familiarise students with the concepts of energy metabolism as well as the synthesis of proteins, lipids and carbohydrates and the control of metabolism.

### **Instructions**

Read Chapter 9 on "Metabolism" in the prescribed textbook: McDonald, P., Edwards, R.A., Greenhalgh, J.F.D., Morgan, C., Sinclair, L.A., & Wilkinson, R.G. 2011 (7th ed). Animal Nutrition. Pearson, Prentice Hall. pp. 192-234. Upon completion of reading the chapter you should be able to answer the questions given in the section below. Please note that the guided reading questions should not be submitted for evaluation. The purpose of the guided reading is to emphasize important sections and concepts of the Chapter to equip students with the knowledge to complete the summative assignments successfully.

### **Outcomes**

On successful completion of this section, students should be able to apply and demonstrate a clear understanding of knowledge and in-depth insight regarding the concepts of energy metabolism as well as the synthesis of proteins, lipids and carbohydrates and the control of metabolism

### **Questions**

Upon completion of reading the chapters you should be able to answer the following questions:

1. Define the term "metabolism"
2. Define the term "energy"
3. What are the functions of energy in the animal?
4. How many joules in 1 calorie?
5. Name the mediating compounds that link exergonic and endergonic reactions. Which of these compounds are the most important?
6. How is energy stored in the abovementioned mediating compounds?
7. Describe the difference between substrate level phosphorylation and oxidative phosphorylation.
8. How many moles of ATP is derived from one mole of NAD<sup>+</sup> and FAD respectively?
9. How many kilojoules are approximately locked up in one high energy bond of the ATP molecule?

# Chapter 9 Guided Reading Answers

**LP Steffe**



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