

## JUNE EXAMINATION

| PROGRAMME       | : | HUMAN MOVEMENT STUDIES                 |
|-----------------|---|--|
| MODULE NAME     | : | EXERCISE SCIENCE                       |
| MODULE CODE     | : | MBK2A02/HMS2AB2                        |
| DATE            | : | JUNE 2014                              |
| DURATION        | : | ONE HOUR                               |
| TOTAL MARKS     | : | 50                                     |
| EXAMINER        |   | : MR AJJ LOMBARD                       |
|                 |   |  |
| MODERATOR       |   | : PROF Y COOPOO                        |
| NUMBER OF PAGES |   | : THIS PAPER CONSISTS OF TWO (2) PAGES |

# **INSTRUCTIONS TO CANDIDATES:**

MAKE SURE THAT YOU HAVE THE COMPLETE PAPER.

ANSWER ALL THE QUESTIONS.

## **QUESTION 1**

Distinguish between anabolism and catabolism. Is cellular respiration anabolic or catabolic? (5)

### **QUESTION 2**

Discuss the function of the tempo regulating enzymes and their regulation during Carbohydrate metabolism. (12)

#### **QUESTION 3**

| Discuss the usage and regeneration of ATP-PC. | (10)    | ) |
|---|---------|---|
|   | · · · · | / |

### **QUESTION 4**

Name the five (5) physiological reasons for lactic acid production. (5)

# **QUESTION 5**

Outline the two primary models that explain delayed onset of muscle soreness (DOMS) according to the Mechanical Traumatic Model. (8)

#### **QUESTION 6**

Name the ten training principles. (10)

## TOTAL: 50