NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

SSC1107

FACULTY OF APPLIED SCIENCES

BACHELOR OF SCIENCE HONOURS DEGREE EXAMINATIONS

DEPARTMENT OF SPORTS SCIENCE AND COACHING

THEORY: SSC1107: PRINCILES OF HUMAN ANATOMY

JANUARY 2011

3 HOURS (100 MARKS)

INSTRUCTIONS

Answer 4 questions only. Each question carries 25 marks. Where a question contains subdivisions, the mark value for each subdivision is given in brackets. Illustrate your answer where appropriate with large clearly labeled diagrams.

- 1. With reference to the upper and the lower limb;
 - a) Compare the similarities.

[3 marks]

b) Contrast the functional differences.

[4 marks]

c) Highlight the functional differences.

[8 marks]

d) Compare five movements that each can realize.

[10 marks]

- 2. What do you understand by the following terms:
 - a) Fast twitch fibres.

[5 marks]

b) Slow twitch fibres.

[5 marks]

c) With examples, explain the different types of muscle.

[9 marks]

d) List the different parts of skeletal muscle.

- [6 Marks]
- 3. With the aid of a diagram, describe the structure and processes of the digestive system.

[25 marks]

4. a) Discuss the breathing mechanism.

- [15 marks]
- b) Discuss the characteristic changes that take place to inspired air between the atmosphere and the blood cells during respiration. [10 marks]
- 5. "The endocrine system plays a regulatory action on the reproductive cycle..."
 - a) Briefly discuss the above statement.

[5 marks]

- b) Discuss the organization of the following:
 - i. The pituitary glands.

[10 marks]

ii. Adrenal (suprarenal) glands.

[10 marks]

6.	a)b)c)	How is the heart adapted for its function? Compare and contrast the structures of veins and arteries. Describe the components of blood.	[10 marks] [10 marks] [5 marks]
		END OF EXAMINATION	