UNIVERSITY OF JOHANNESBURG

PROGRAM	:	NATIONAL DIPLOMA **SOMATOLOGY**
SUBJECT	:	**BIOTICS THEORY I NOVEMBER EXAM**
CODE	:	**BIT101**
DATE	:	14 NOVEMBER 2014
DURATION	:	SESSION 1 08:30 - 11:30
WEIGHT	:	50:50
TOTAL MARKS	:	130

EXAMINER	:	MS KHUMALO	
MODERATOR	:	MS JOOWALAY	4215
NUMBER OF PAGES	:	5 PAGES	

INSTRUCTIONS	:	QUESTION PAPERS MUST BE HANDED IN.
REQUIREMENTS	:	1 EXAMINATION SCRIPT

INSTRUCTIONS TO CANDIDATES:

PLEASE ANSWER ALL THE QUESTIONS.

QUESTION 1

1.1 In table format differentiate the types of muscle by considering location, appearance and type of contraction. 20 x ½ = 10

1.2 Identify the role of muscles in the body. 4

[14]

QUESTION 2

2.1 Bones are classified according to their shape. Name, describe and provide as many examples as possible. 14 x ½ = 7

2.2 Identify and describe 3 landmarks of the scapula. 6

2.3 Besides contributing to body shape and form, our bones perform several important body functions, identify and discuss each function. 10

[23]

QUESTION 3

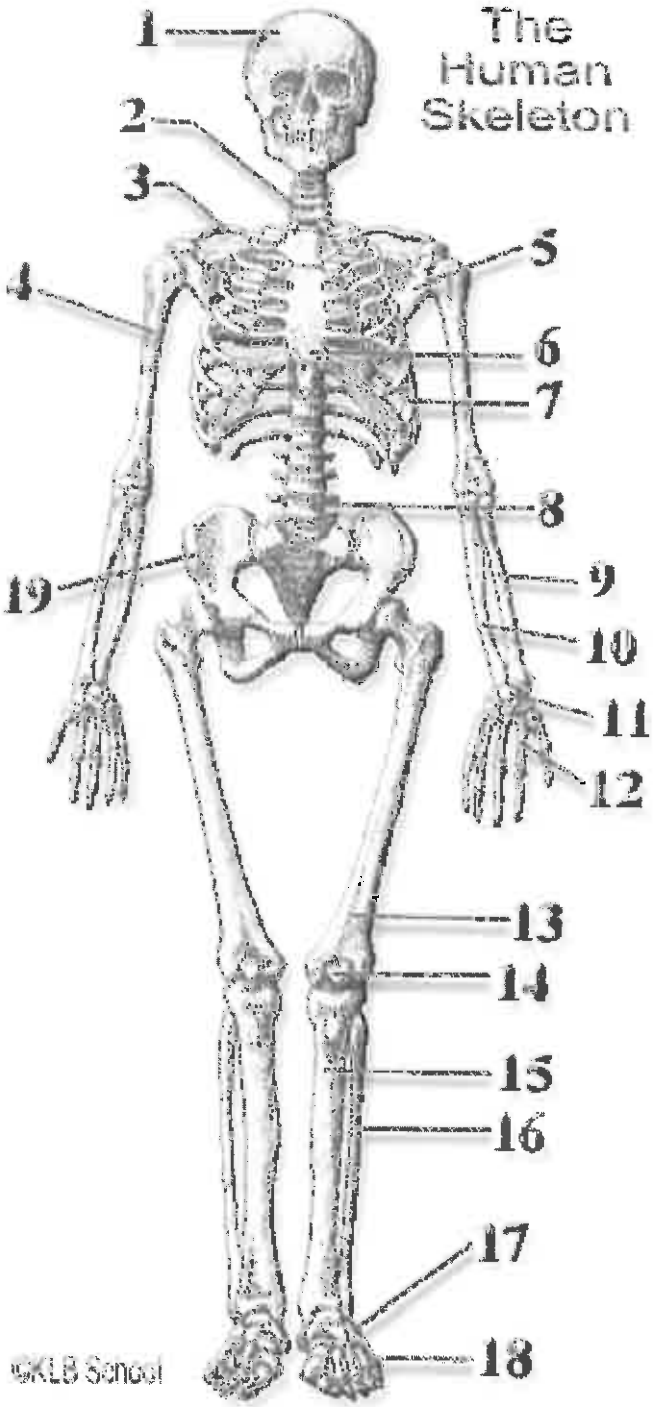
Joints are articulations in the body to allow for movement. Diarthrotic joints are described according to the amount of movement they allow. Name and describe these and provide an example of each different to those in your notes. 12

[12]

QUESTION 4

Label the diagram indicating the bones of in the human body i.e. 4.1 epidermis.

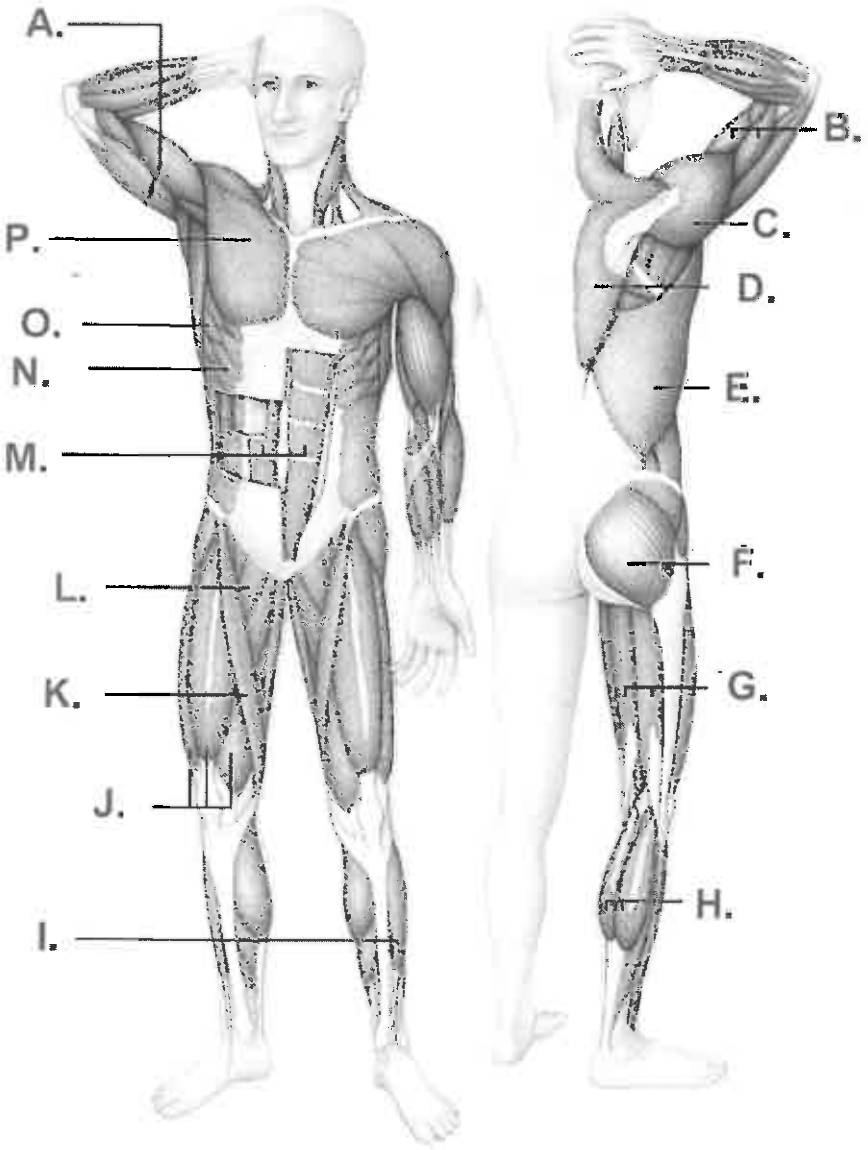
18



[18]

QUESTION 5

Label the diagram indicating the muscles of the body. Write the letter in your script followed by the name of the muscle i.e. C: matrix. **16**



[16]

QUESTION 6

Levers are classified into groups, discuss the below mentioned classes of levers, and provide an example from the body for each one:

6.1 First class lever. 4
6.2 Second class lever. 4
6.3 Third class lever. 4

[12]

QUESTION 7

Cathy is pregnant and requires more information on posture as she would like to ensure she is well informed in this subject. She admits thatshe currently has bad posture.

7.1 Define posture for her. 4

7.2 Emphasize the importance of good posture for Cathy. 5

7.3 Elaborate on six (6) causes of poor posture. 12/2=6

7.4 Identify ways in which you would advise Cathy to change her bad posture. 6

[21]

QUESTION 8

Identify and discuss the three (3) main somatotypes. 9

[9]

QUESTION 9

Define the following terms:

9.1 Lateral 1
9.2 Proximal 1
9.3 Adduction 1
9.4 Circumduction 1
9.5 Pronation 1

[5]