UNIVERSITY OF SWAZILAND

FACULTY OF HEALTH SCIENCES

GENERAL NURSING SCIENCE DEPARTMENT

SUPPLEMENTARY EXAMINATION: JULY 2014

COURSE TITLE:

HUMAN ANATOMYAND PHYSIOLIGY 1

CORSE CODE;

HSC 116

MARKS ALLOCATED

75

TIME ALLOWED:

TWO (2) HOURS

INSTRUCTIONS:

- 1. THERE ARE TWO (2) SECTIONS IN THIS PAPER
 - i) SECTION 1A IS MULTIPLE CHOICE
 - ii) SECTION 1B IS MATCHING
 - iii) SECTION 2 IS SHORT ANSWERS
 - iv) PLEASE ANSWER ALL QUESTIONS
 - v) SECTION 1 CARRIES 35 MARKS
 - vi) SECTION 2 CARRIES 40 MARKS
- 2. USE ANSWER SHEET FOR ALL YOUR ANSWERS

NB: DO NOT OPEN THE QUESTION PAPER UNTIL PERMISSION HAS BEEN GRANTED BY THE INVIGILATOR.

SECTION 1A MULTIPLE CHOICE

Choose the most correct response for the questions/statements below and write it in your answer book.

- 1. Which of the following organs is made of mostly transitional epithelial tissue?
 - A. Skin
 - B. Mammary glands
 - C. Trachea
 - D. Urinary bladder
- 2. What is the function of fascia?
 - A. Holds two bones together
 - B. Stabilizes the joint
 - C. Wraps muscles and nerves
 - D. Attaches muscle to muscle
- 3. Aponeurosis is connective tissue that......
 - A. Binds bones together.
 - B. Bind muscles together
 - C. Attaches muscle
 - D. Wraps nerves and blood vessels
- 4. What determines the colour of hair?
 - A. Hemoglobin
 - B. Melanin
 - C. Carotene
 - D. Age
- 5. Burns of the right anterior arm and left posterior leg accounts for---% of the body.
 - A. 18

 - B. 9 C. 13.5
 - D. 36

6. which of the following is produced by apocrine sweat glands?

- A. Sebum
- B. 99% water
- C. odorous smell
- D. None of the above

7. Choose the most abundant cartilage in the human body.

- A. Elastic cartilage
- B. Fibro cartilage
- C. Hyaline cartilage
- D. None of the above

8. which of the following bones is classified as an irregular bone?

- A. Ankle bone
- B. Phalanges
- C. Sternum
- D. Vertebral

9. The periosteum membrane covers which part of the body?

- A. Membrane covering body cavities
- B. Membrane lining the abdomen
- C. Membrane covering bone surface
- D. Membrane covering the heart

10. In which organ of the body are red blood cells formed?

- A. Red bone marrow of long bones
- B. Spongy bone of long bones
- C. Diploe of flat bones
- D. All of the above

11. The lamella is the structural part of which organ of the human body?

- A. Structural part of the joints
- B. Structural part of the compact bone
- C. Structural part of soft bone
- D. Structural part of a tree

12. Osteomalacia refers to......

- A. Bone germinators
- B. Porous bone
- C. Soft bone
- D. Osteoblast

13. Which of the following is not an endochondral bone?

- A. Parietal bone
- B. Femur
- C. Phalanges
- D. Tibia

14. Dwarfism is a result of......

- A. Excessive secretion of growth hormone
- B. Excessive production of testestone
- C. Hyposecretion of thyroid and growth hormone
- D. Hypersecretion of ostrogen

15. The following foramen is not part of the sphenoid bone.

- A. Foramen magnum
- B. Foramen ovale
- C. Foramen rotedum
- D. Foramen spinosum

16. The fetal vertebral column is made of......

- A. 26 vertebrae
- B. 12 vertebrae
- C. 33 vertebrae
- D. 7 vertebrae

17. Which of the following are true ribs?

- A. Vertebrochondral ribs
- B. Verbral ribs
- C. Floating ribs
- D. Vertebrosternal ribs

18. False ribs of the human skeleton are......

- A. 7 pairs
- B. 2 pairs
- C. 3 pairs
- D. None of the above

19. Carpus are formed by -----bones per limb.

- A. 5 bones
- B. 8 bones
- C. 7 bones
- D. 14 bones

20. Which part of the body has abundant smooth muscles?

- A Heart
- B. Appendicular skeleton
- C. Hollow visceral organs
- D. Axial skeleton.

21. Which muscle is the most abundant in the human body?

- A Smooth muscle
- B. Skeletal muscle
- C. Cardiac Muscle
- D. None of the above.

22. What is pronation?

- A. Turning of wrist to move radius around the ulna.
- B. Turning of wrist to move ulna around the radius.
- C. Moving the palm away from midline
- D. Moving the hand towards midline.

23. Rotation of the head is the function of the:-

- A. Axis
- B. Atlas
- C. Lumber vertebra
- D. Cervical vertebra number seven

24. Which junctions help to prevent leakage of micro-organisms from the digestive tract to the circulatory system?

- A. Desmosomes
- B. Tight junctions
- C. Gap junctions
- D. Loose junctions

25. What is produces by eccrine sweat glands?

- a. 99% water
- b. odorous smell
- c. mucus
- d. sebum

SECTION 1B MATCHING

Match each of the statement/items in column A with the correct response in column B. eg 1=A

	COLUMN A	COLUMN B
	1. This joint is firmly secured by the acetabulum	A. Glenohumeral joint
2.	Death rigor peaks afterhours	B. Hip joint
3.	This joint is prone to luxation	C. 3
4.	The lower extremities has a total of joints	D. Cell traffic director
5.	Cell growth phase	E. Metaphase
6.	Cell division	F Hydrophilic
7.	Mitochondria	G. Meiosis
8.	Golgi apparatus	H. Mitosis
9.	Cell division resulting in reproductive cells	I. Power house
10.	Phospholipids tails of the cell are	J. 24

SECTION 2 SHORT ANSWERS

QUESTION 1

A. Use the anatomist language to state the divisions of the vertebral column and the number of Vertebrae per division.

(10 MARKS)

В.

- i). Name the keystone bone of the cranium.
- ii). State the keystone bone of the face.
- iii). Name the only movable joint of the skull.
- iv). State the longest bone in the human body.
- v). State the most complex and strongest joint of the body.

(10 MARKS)

QUESTION 2

- A. State bones responsible for forming the vault of the skull, and their sutures? (10 MARKS)
- B. Miss Zwane accidentally cut her index finger while cutting vegetables and sustained a laceration. Using information learned in your anatomy and physiology class, describe the steps of tissue repair that will follow after this accident?

(10 MARKS)