



FINAL EXAMINATION

COURSE : BASIC HUMAN ANATOMY

COURSE CODE : HSM1123

DURATION : 02 HOURS

INSTRUCTIONS TO CANDIDATES :

1. This question paper consists of **THREE (3)** parts : PART A (15 questions)
: PART B (07 questions)
: PART C (02 questions)
2. Answer ALL questions from PART A, PART B and PART C.
 - i. Answer PART A in the Objective Answer Sheet.
 - ii. Answer PART B and C in the Answer Booklet provided.
3. Please check to make sure that this examination pack consists of :
 - i. The Question Paper
 - ii. An Answer Booklet
 - iii. An Objective Answer Sheet
4. Do not bring any material into the examination hall unless permission is given by the invigilator.
5. Do not bring out this question paper from the examination hall.
6. Please write your answer using a ball-point pen.

MYKAD NO : _____

ID. NO. : _____

LECTURER : _____

SECTION : _____

DO NOT OPEN THIS QUESTION PAPER UNTIL YOU ARE TOLD TO DO SO

The question paper consists of 06 printed pages.

FEB2019/E/HSM1123

PART A: MULTIPLE CHOICE

Choose the *BEST ANSWER* and write the answer in the *Objective Answer Sheet* provided.

1. (1 point)
The blood vessels allow _____ to circulate to all parts of the body.
 - A. blood
 - B. water
 - C. nutrients
 - D. oxygen

2. (1 point)
The size of the human heart is approximately the size of a _____.
 - A. finger
 - B. thumb
 - C. fist
 - D. head

3. (1 point)
How many chambers does the human heart have?
 - A. 1
 - B. 2
 - C. 3
 - D. 4

4. (1 point)
Normal heart beats are about _____ times per minute.
 - A. 20 - 40
 - B. 40 - 60
 - C. 60 - 80
 - D. 80 - 100

5. (1 point)
Average adults take about _____ breaths under normal condition.
 - A. 8 to 11
 - B. 12 to 15
 - C. 16 to 19
 - D. 20 to 23

6. (1 point)
The device used to measure volume of air moves into and out of the lung is called _____.
A. electrocardiogram
B. spirometer
C. ultrasound
D. electromyogram
7. (1 point)
Which of the following is **NOT** a disease related to the respiratory system?
A. Bronchitis.
B. Athma.
C. Arthritis.
D. Emphysema.
8. (1 point)
The digestive tract is also called as _____.
A. cardiovascular tract
B. gastrointestinal (GI) tract
C. urinary tract
D. lymphatic tract
9. (1 point)
_____ helps softening, moistening and dissolving foods.
A. Gallbladder
B. Pancreas
C. Liver
D. Saliva
10. (1 point)
The human digestive system organs use _____ enzyme to chemically breakdown the food consumed.
A. amylase
B. lipase
C. pepsin
D. trypsin

11. (1 point)
What is the function of ureters?
- A. They carry urine from the renal pelvis of the kidneys to the urinary bladder.
 - B. They carry urine from the bladder to outside of the body.
 - C. They collect urine from the kidneys before disposal by urination.
 - D. They remove waste and excess substances from the blood.
12. (1 point)
The function of urinary bladder is to _____.
- A. carry urine from the renal pelvis of the kidneys to the urinary bladder
 - B. carry urine from the bladder to outside of the body
 - C. collect urine from the kidneys before disposal by urination
 - D. remove waste and excess substances from the blood
13. (1 point)
Urinary process is formed in the kidneys through a filtration of _____.
- A. water
 - B. food
 - C. blood
 - D. oxygen
14. (1 point)
A normal human being excretes about _____ of urine daily.
- A. 1 - 1.4 liters
 - B. 1.5 - 1.8 liters
 - C. 1.9 - 2.2 liters
 - D. 2.3 - 2.6 liters
15. (1 point)
Movement of urine along the ureters is conducted by _____.
- A. voluntary movement
 - B. involuntary movement
 - C. peristalsis
 - D. pressure

PART B: STRUCTURED

Answer ALL questions. Write your answer in the Answer Booklet provided.

1. **(2 points)**
List **TWO (2)** functions of cardiovascular system.
2. **(3 points)**
List **THREE (3)** layers of tissue that made up of a heart.
3. **(2 points)**
Give **TWO (2)** accessory organs that involve in digestive system.
4. **(2 points)**
Clarify **FOUR (4)** basic layers (tunics) of the alimentary canal.
5. **(2 points)**
Classify **TWO (2)** functions of tongue in digestive system.
6. **(2 points)**
Describe the main functions of urinary system.
7. **(2 points)**
Give **TWO (2)** characteristics of urine.

PART C: ESSAY

Answer ALL questions. Write your answer in the Answer Booklet provided.

1. (10 points)

Mechanism of breathing is a process of air flowing into the lungs during inspiration (inhalation) and out of the lungs during expiration (exhalation).

a) Justify **FOUR (4)** processes of human respiratory system. (4 points)

b) Explain the mechanics of breathing during inspiration . (6 points)

2. (10 points)

The function of the cardiovascular system is to deliver oxygen and nutrients and to remove carbon dioxide and other waste products from human body.

a) Classify **FIVE (5)** sequences of excitation components of heart physiology. (5 points)

b) Discuss **FIVE (5)** tips in reducing the risk for heart disease in cardiovascular system. (5 points)