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THE OPEN UNIVERSITY OF SRI LANKA
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF BASIC SCIENCES
ACADEMIC YEAR 2019/2020 – SEMSETER I

BACHELOR OF SCIENCE HONOURS IN PHARMACY
BACHELOR OF SCIENCE HONOURS IN MEDICAL LABORATORY SCIENCES
BSU3230 - HUMAN ANATOMY - LEVEL 3
CONTINUOUS ASSESSMENT I (NBT I) DURATION: 1 HOUR

DATE: 07th FEBRUARY 2020 TIME: 09.00 AM – 10.00 AM

REGISTRATION NO: .....

IMPORTANT INSTRUCTIONS/ INFORMATIONS TO CANDIDATES

- This question paper consists of **11 pages** with **20 Multiple Choice Questions (Part A)** and **02 Structured Essay Question (Part B).**
- Write your Registration Number in the space provided.
- Answer **ALL** questions.
- **Multiple Choice Questions (Part A):** Indicate answers in the answer sheet provided by placing a cross (X) in **INK** in the relevant cage. (Answers in pencil will **NOT** be marked)
- **Structured Essay Questions (Part B):** Write answers within the space provided.
- Do not remove any page/part of this question paper from the examination hall.
- Mobile phones and any other electronic equipment are **NOT** allowed. Leave them outside.
- **Please fill the address sheet. (See last page)**

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REGISTRATION NO:.....

ANSWER SHEET FOR PART A

Q. No.	(a)	(b)	(c)	(d)
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REGISTRATION NO: .....

Part A – Multiple Choice Questions

(20 marks)

Choose the most suitable/ best answer (Best of four) and indicate with a 'X' in the answer sheet provided.

1. The order of the structural levels of organization of the human body includes
   a) cell, tissue, system and organ
   b) organ, tissue, system and cell
   c) cell, tissue, organ and system
   d) tissue, cell, organ and system

2. The main component of the cell membrane is
   a) glycoproteins
   b) phospholipids
   c) carbohydrates
   d) cholesterol

3. Cell division by mitosis
   a) occurs in the gametes
   b) results 23 chromosomes in daughter cells
   c) involves two divisions of the nucleus
   d) produces two daughter cells

4. Mitochondria
   a) act as the site of protein synthesis
   b) are the main organelle that produce ATP
   c) function as a transport system
   d) are covered by a single membrane

5. Blood capillaries are typically lined by
   a) simple squamous epithelium
   b) simple columnar epithelium
   c) stratified squamous epithelium
   d) pseudo stratified columnar epithelium

6. Smooth muscle

   a) contains multiple nuclei
   b) has arranged sarcomeres
   c) consists with T-tubules
   d) has voluntary control

7. The site of blood cell formation is

   a) spleen
   b) liver
   c) bone marrow
   d) heart

8. Which one of the following statement is correct regarding erythrocytes?

   a) They have lobed nuclei
   b) They are biconvex in shape
   c) Their production is regulated by a hormone
   d) Their life span is about 2 days

9. Human heart

   a) is a pear shaped structure
   b) is enclosed by the pericardium
   c) chambers are lined with a stratified epithelium
   d) is situated in the abdominal cavity

10. Blood in the right atrium passes into the right ventricle through the

    a) bicuspid valve
    b) aortic valve
    c) pulmonary valve
    d) tricuspid valve

11. Which one of the following is correct regarding the lymphatic system?

    a) It transports fat molecules from the digestive system to the blood circulation
    b) It has open - ended vessels
    c) Lymphatic vessels are lined by the simple cuboidal epithelium
    d) Structure of the lymphatic vessels is similar to the structure of artery

12. Respiratory zone of the respiratory system includes
    a) larynx
    b) trachea
    c) alveoli
    d) pharynx

13. Epithelium which lines the trachea is
    a) stratified cuboidal epithelium
    b) stratified squamous epithelium
    c) simple cuboidal epithelium
    d) pseudostratified columnar epithelium

14. Human lungs
    a) are in the mediastinum
    b) are covered by pleural membranes
    c) have longer right lung than the left lung
    d) have three main lobes in its left lung

15. Digestive system is typically lined by
    a) stratified squamous epithelium
    b) simple squamous epithelium
    c) simple columnar epithelium
    d) simple cuboidal epithelium

16. Accessory organ of the gastrointestinal tract includes
    a) stomach
    b) pancreas
    c) small intestine
    d) spleen

17. Which one of the following is correct regarding the liver?
    a) The hepatic duct carries bile to the gall bladder
    b) It is located in the upper left corner of the abdomen
    c) It stores bile
    d) It consists with three larger lobes

18. Major regions of large intestine are

a) Ileum, Caecum, Colon
b) Caecum, Colon, Rectum
c) Jejunum, Ileum, Caecum
d) Duodenum, Jejunum, Ileum

19. Which one of the following is correct regarding the stomach?

a) The fundus is the lowest part
b) It is a U shaped pouch
c) Oesophagus opens to the cardiac region
d) It has two smooth muscle layers

20. Bones of the anterior thoracic cavity includes

a) Ribs, Manubrium and clavicles
b) Ribs, Vertebra and body of sternum
c) Vertebra, ribs and clavicles
d) Manubrium, body of sternum and xiphoid process

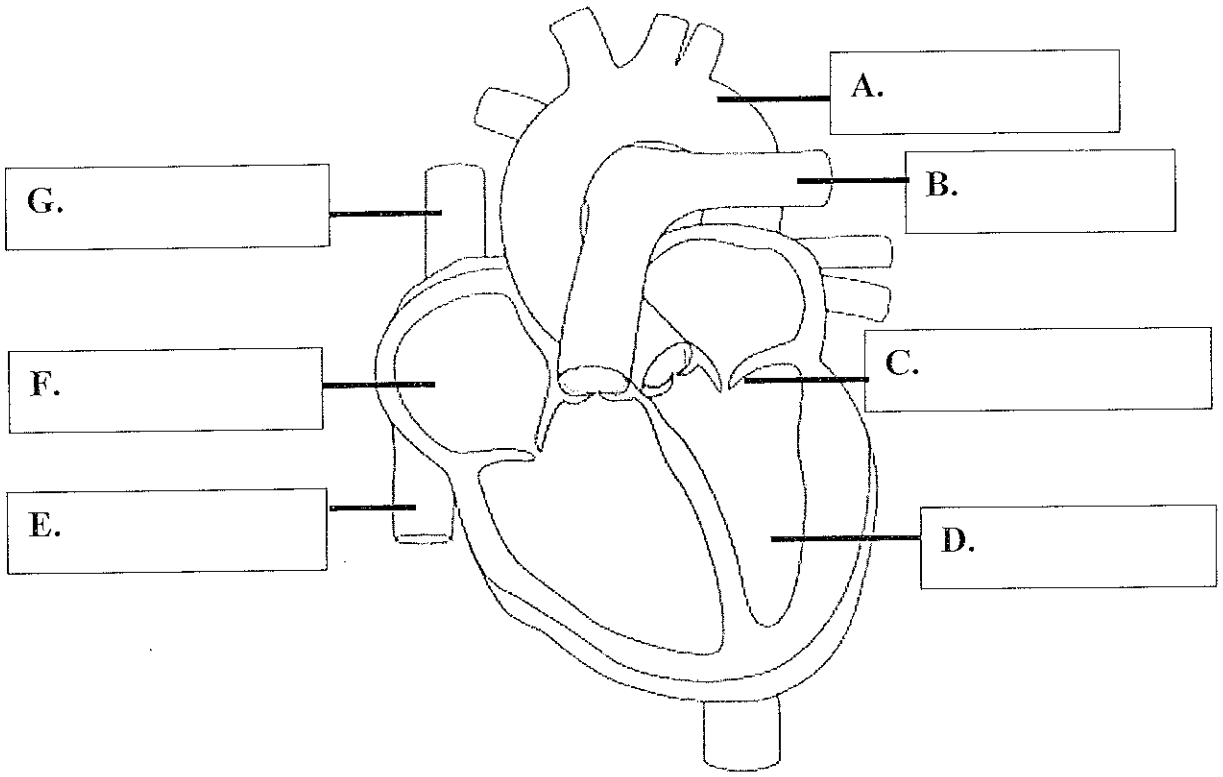
REGISTRATION NO: .....

Part B – Structured Essay Questions

(80 marks)

Write answers in the space provided.

1. a) Diagram of the human heart is given below. Identify the region/structure named as A - G. (14 marks)



b) Name **three (03)** structural features of cardiac muscles. (6 marks)

I. .....

II. .....

III. .....

c) Name **three (03)** lymphoid organs associated with the lymphatic system. (6 marks)

I. .....

II. .....

III. .....

d) Briefly describe the **four (04)** main processes of respiration. (14 marks)

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