



THE OPEN UNIVERSITY OF SRI LANKA
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF BASIC SCIENCES
ACADEMIC YEAR 2018/2019 – SEMESTER I

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BACHELOR OF PHARMACY HONOURS
BACHELOR OF MEDICAL LABORATORY SCIENCES HONOURS
BSU3230 - HUMAN ANATOMY – LEVEL 3
CONTINUOUS ASSESSMENT I (NBT I)

DURATION: ONE HOUR

DATE: 16th NOVEMBER 2018

TIME: .09.00 AM – 10.00 AM

REGISTRATION NO:

IMPORTANT INSTRUCTIONS/ INFORMATIONS TO CANDIDATES

- This question paper consists of 10 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)
1				
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REGISTRATION NO:

Part A – Multiple Choice Questions*(40 marks)*

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

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

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

3. Which of the following is the correct statement regarding cell division by meiosis?
 - a) It occurs in the normal body cells
 - b) It produces two daughter cells
 - c) It occurs in the ovaries
 - d) It results 46 chromosomes in daughter cells

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

5. Structure of cardiac muscle
 - a) consists with spindle shaped muscle cells
 - b) has no myofilaments
 - c) lacks striations
 - d) contains intercalated discs

6. The site of blood cell formation is
- spleen
 - liver
 - bone marrow
 - heart
7. Which of the following statement is incorrect regarding erythrocytes?
- They have lobed nuclei
 - They are biconcave in shape
 - Their life span is about 120 days
 - Their production is regulated by erythropoietin
8. Functions of the cardiovascular system include
- distribution of hormones
 - distribution of oxygen to all cells
 - involving in body defense mechanisms
 - all of the above
9. Blood in the right atrium pass to the right ventricle through the
- aortic valve
 - tricuspid valve
 - interatrial septum
 - bicuspid valve
10. Which one of the following is incorrect regarding the lymphatic system?
- It has open - ended vessels
 - It contains cells of immune system
 - It transports fat molecules from the digestive system to blood
 - It removes extra fluid from the tissues
11. Structure which is not included in the conducting zone of the respiratory system is
- pharynx
 - larynx
 - alveoli
 - trachea

12. 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

13. Accessory organ of the gastro intestinal tract includes

- a) liver
- b) spleen
- c) small intestine
- d) stomach

14. Epithelium which lines the small intestinal villi is

- a) simple squamous epithelium
- b) stratified squamous epithelium
- c) simple columnar epithelium
- d) simple cuboidal epithelium

15. Major regions of large intestine are

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

16. Which one of the following is a structural feature of the stomach?

- a) Oesophagus opens to the cardiac region
- b) Pyloric region opens to the small intestine
- c) The mucosa contains gastric glands
- d) All of the above

17. Which one of the following is incorrect regarding the human kidney?

- a) It is covered by the renal capsule
- b) It is located in the pelvic cavity
- c) It is supplied by the renal arteries
- d) Its functional unit is the nephron

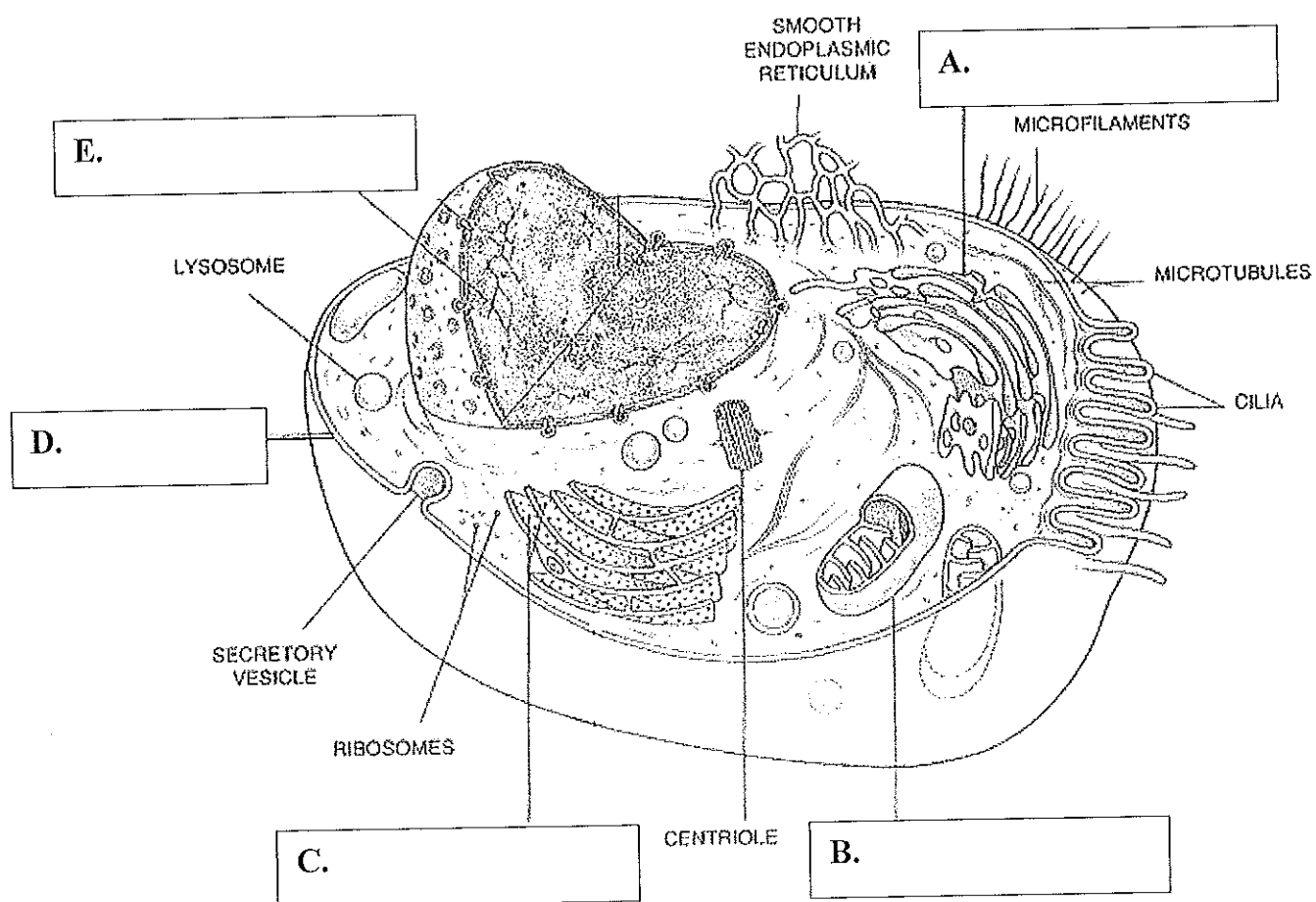
18. The Thyroid gland
- a) produces Thyroxine
 - b) consists of three lobes
 - c) is in the thoracic region
 - d) secretes parathyroid hormone
19. In the male reproductive system, spermatogenesis is occurred in the
- a) seminal vesicles
 - b) vas deferens
 - c) seminiferous tubules
 - d) epididymis
20. In the female reproductive system, site of normal fertilization is
- a) uterine tube
 - b) uterine cervix
 - c) ovary
 - d) uterine wall

REGISTRATION NO:

Part B – Structured Essay Questions
(60 marks)

Write answers in the space provided.

1. a) Diagram of a typical cell is given below. Identify the structures named A, B, C, D and E.
(2 x 5 = 10 marks)



b) List **five** (05) types of connective tissues found in the human body. Give one example for each type you mentioned. (2 x 5 = 10 marks)

Type	Example
i.	
ii.	
iii.	
iv.	
v.	

c) Name **three** (03) structural features of smooth muscles. (2 x 3 = 6 marks)

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2. a) Briefly explain the flow of blood through the heart. (12 marks)

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b) Name the **three** (03) main salivary glands. (2 x 3 = 6 marks)

- i.
- ii.
- iii.

c) Name the gland/ organ that secretes each of the following hormone. (2 x 5 = 10 marks)

- i. Insulin -
- ii. Growth hormone -
- iii. Adrenalin (Epinephrine) -
- iv. Calcitonin -
- v. Testosterone -

d) Name **three** (03) lymphoid organs associated with the lymphatic system.

(2 x 3 = 6 marks)

- i.
- ii.
- iii.

Reg. No:.....

Name:.....

Address:.....

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