



**RAJARATA UNIVERSITY OF SRI LANKA
FACULTY OF APPLIED SCIENCES**

**B.Sc. (General) Degree in Applied Sciences
First Year – Semester II Examination – November / December 2016**

BIO 1104 – ANIMAL HISTOLOGY

Index no:

Time: One and a half (1 ½) hours

Answer all questions in section A and two questions from section B.

Illustrate your answers with labelled diagrams where necessary.

Section A

1. Underline the best option/answer.

- I) Simple squamous epithelium is found in the lining of
- A. Trachea, large bronchi, etc.
 - B. Blood vessels, kidney tubules, epididymis etc.
 - C. Skin, anal canal, vagina etc.
 - D. All of the above

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- II) Stratified epithelia are found on
- A. Protective surfaces
 - B. Absorptive surfaces
 - C. Both (A) & (C)
 - D. None of the above
- III) Groups of similar cells that specialize to perform specific functions are termed
- A. Organs
 - B. Systems
 - C. Tissues
 - D. Body
- IV) Mast cells are present in
- A. Epithelial tissue
 - B. Areolar tissue
 - C. Muscular tissue
 - D. Nervous tissue
- V) Epithelium by embryological origin is
- A. Ectodermal
 - B. Endodermal
 - C. Mesodermal
 - D. All of these
- VI) Rings of trachea are made up of
- A. Fibro cartilage
 - B. Elastic cartilage
 - C. Hyaline cartilage
 - D. None of these
- VII) Which of the following tissue lacks collagen and elastin fibres?
- A. Adipose tissue
 - B. Areolar tissue
 - C. White fibrous connective tissue
 - D. Yellow fibrous connective tissue
- VIII) Ear pinnae, epiglottis and bronchiolar cartilages are made of
- A. Hyaline cartilage
 - B. Fibrocartilage
 - C. Yellow elastic cartilage
 - D. None of these

IX) Axons of the central nervous system are myelinated by

- | | |
|---------------------|---------------|
| A. Schwann cells | B. Astrocytes |
| C. Oligodendrocytes | D. Microglia |

X) Osteoclast cells are important for

- A. Secretion of collagen and ground substance
- B. Bone reabsorption and remodeling
- C. Maintain the bone matrix
- D. None of the above

(5x10 = 50 marks)

Section B

1. a) Describe the structure of skeletal muscles.
- b) Explain the mechanism of skeletal muscle contraction.

(50 marks)

2. a) Describe the basic plan of the gastrointestinal tract.
- b) Explain how the basic plan varies from the esophagus to the large intestine.

(50 marks)

3. Write short notes on any **five (05)** of the following.

- a) Ureter
- b) Structure of the mammalian ovary
- c) Smooth muscle
- d) Eosinophil
- e) Adipose tissue
- f) Neuroglia

(50 marks)