



**ELIZADE UNIVERSITY,
ILARA-MOKIN,
ONDO STATE**

FACULTY: BASIC & APPLIED SCIENCES

DEPARTMENT: BIOLOGICAL SCIENCES

SECOND SEMESTER EXAMINATION

2015/2016 ACADEMIC SESSION

COURSE CODE: BIO 208

COURSE TITLE: CELL BIOLOGY and HISTOLOGY

DURATION: 2hours

A handwritten signature in black ink, enclosed in a rectangular box.

HOD'S SIGNATURE

NAME:.....MAT.

No:.....

INSTRUCTIONS

1. Answer all questions in Sections A and B
2. Do section A in the first 30 minutes and submit before attempting section B

SECTION A: MULTIPLE CHOICE QUESTION- Write out the answers

- 1] Epithelial tissue is characterized by each of these traits except that -----
- a.) it lacks blood vessels a. b.) It functions in secretion, absorption and excretion c.) Epithelial cells are loosely packed and have much intercellular material d.) it is anchored to a basement membrane
- 2] Microvilli which function to increase surface area, are more likely to be found in ----- epithelium
- a. simple cuboidal b.)simple squamous c.) transitional d.) simple columnar
- 3] Epithelium that appears layered due to the varying levels at which nucleic are found in cells, but in reality is not layered is -----.
- a.) Transitional epithelium b.) pseudostratified columnar epithelium.
c.) Stratified squamous epithelium d.) stratified columnar epithelium
- 4] The outer layer of the skin is composed of -----
- a.) transitional epithelium b.) pseudostratified columnar c.) stratified squamous epithelium d.)stratified columnar epithelium
- 5] The primary purpose of stratification, or layering, in epithelial tissue is for increased -----
- a.)Protection b.)Secretion c.)Absorption c.)Thickening of the basement membrane
- 6] What type of epithelium lines the urinary bladder and is capable of distention? a.)Stratified-columnar epithelium b.) stratified cuboidal epithelium c.) Stratified squamous epithelium d.)transitional epithelium
- 7] Connective tissues are somewhat similar to epithelial tissues in all of these characteristics except -----
-
- a.)They have abundant intercellular material b.) They can usually reproduce themselves c.) They often serve more than one function` d.) They occur throughout the body
- 8] What function do fibroblasts serve in connective tissue? a.)Carry on phagocytosis
b.)Secrete heparin that prevents blood clotting c.)Secrete protein that becomes fibers in the connective tissue matrix d.)Release histamine associated with allergies and inflammation
- 9] Connective tissue fibers that have great tensile strength and can be found in ligaments and tendons are --
-
- a.)Elastic fibers b.)collagenous fibers c.)Reticular fibers d.)Yellow fibers
- 10] The type of cartilage found in intervertebral disks of the vertebral column is _____.
- a.)Hyaline cartilage b.)elastic cartilage c.)yellow cartilage d.)fibrocartilage
- 11] Choosing from the following list of connective tissues, which one consists of cells in a fluid matrix?
- a.)Loose connective tissue b.) adipose tissue c.)bone d.)blood
- 12] Which muscle tissue is multinucleate, voluntary, and bears striations?
- a.)Skeletal muscle b.)smooth muscle c.)multiunit smooth muscle d.)cardiac muscle
- 13] Neuroglial cells help neurons in each of these ways, with the exception of _____.
- a.)Supporting and binding nervous tissue b.) Carrying on phagocytosis c.) Playing a role in cell –to cell. communication d.) transmitting nervous d impulses

14] Which of the following is not one of the four major types of tissues?

- a.) Epithelial b.) connective c.) nervous d.) skeletal

15] The only major type of tissue specialized for movement is the _____ tissue.

- a.) Nervous b.) cardiac muscle c.) muscle d.) connective

16] The cells lining blood vessels and the lung alveoli are classed as _____ epithelium

- a) Columnar stratified b) stratified squamous c) simple squamous d) cuboidal

17] The kidney tubules are lined with _____ epithelial cells

- a.) Columnar b.) cuboidal c) squamous d) ciliated

18] The cells that directly and specifically secrete mucus are called _____ cells

- a.) Epithelial b.) endocrine c.) exocrine d.) goblet

19] The term _____ refers to the fact that an epithelial tissue has only one layer of cells.

- a.) Stratified b.) cuboidal c.) simple a.) pseudostratified

20] One of the main functions associated with simple squamous epithelium is _____.

- a.) Diffusion b.) active transport c.) secretion d.) absorption

21] What type of tissue is found on the surface of the ovaries?

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

22] The lining of the vagina is covered with _____ cells

- a.) Mucus columnar b.) pseudostratified epithelium c.) stratified cuboidal d.) stratified squamous

23] Connective tissue is complex because it has a variety of cells and a noncellular background called a _____ surrounding them.

- a) Collagen b.) elastin c.) mucous secretion
d.) matrix

24] Which of these is not a connective tissue?

- a.) Blood b.) bone c.) muscle d.) cartilage

25] What type of tissue holds most organs together?

- a.) Adipose b.) muscular c.) dense connective d.) loose connective