AKOBUNJU AICHARJ WELFARE DIRECTOR

#### DEPARTMENT OF HUMAN ANATOMY, ABIA STATE UNIVERSITY, UTURU, FIRST SEMESTER EXAMINATION. EMBRYOGENESIS (ANA 231).

09/02/2021 Time allowed: 1hr, 15mins

#### **Section A**

	1.	Cd	Conversion of germ cells into gametes is known as?	
	2.		Group of cells produces testosterone necessary for spermatogenesis?	
	3.	Se	exual arousal is under the influence of the	
	4.		follicular gland produces estrogen? The noternal	
	5.	Th	he corpus luteum is derived from	
	6.	Th	he 8-cell stage occurs approximately at what time after fertilization?	
	7.		he binding of spermatozoa with the zona pellucida is facilitated by proteins?	
	8.		ny chromosome number that is not exact multiple of "n" is termed - Engloyd	
	9.	Th	he remnant of the notochord in man is ——————	
	10.	Cri	ri-du-chat syndrome occurs as a result of	
	11.	<u>.C</u>	process ensures the formation of the brain and spinal cord?	
	12.	Ur	rine is used to detect pregnancy when testing for	
	13.	Th	ne notochord migrates through the notochordal canal.	
	14.	Th	he primitive streak appears at what time	
	15.	A	man is said to have low sperm count when	
	16.	KT/T	condition results in an abnormal male?	
	17.	Pr	rogesterone is produce bygland?	
	18.	M	Nongolism occurs as a result of?	
	_19.	a c	congenital anormaly that is associated with two or more nipple is termed —————	
	20.	ch	romosomal abnormality that is associated with naternal chromosomos is the annual	?
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Sac	20. 21.	ch	nromosomal abnormality that is associated with paternal chromosomes is thermed is the only monosomy campactible with life? Turner Syndrones	
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	20. 21. tion	B	is the only monosomy campactible with life? Turner Symptones  any 4 questions, diagram is an added advantage)	
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# AKOBUNDU RIHARD

### DEPARTMENT OF MEDICAL LABORATORY SCIENCE, ABIA STATE UNIVERSITY, UTURU, FIRST SEMESTER EXAMINATION. BASIC HISTOOGY (ANA 221).

08/02/2021 Time allowed: 1hr, 30mins

#### Section A (20 marks)

<ol> <li>The branch of Anatomy that is aided with microscope is known as?</li> </ol>
and a string unit of a skeletal muscle is known as
The functional unit of the nervous tissue is
T. Epithelium lines the nepile urother?
5
/is the apical specialization of the apital to
o the fulletion of microvilli in the annual control of the control
Epitifelium lines the head of the anidal and a
and pringes in policy are called
22. Type it collagen fibres are found in
6 7 cm is differential to the control of the contro
or a unipolar neuron is found whore in the 1
transfer in a pipolar neuron is
trial involves the progressive less of heart
17. Nerve cells in the brain and spinal cord are different from next to
the presence of?
18. The epithelia lining of the labia minora of the vagina is
Type of Hotes is found within the and amount
20. The structural and functional subunit of the muscle fibre is the?
Soction B (Fo
Section B (50 marks)
Answer all questions.
<ol> <li>With your knowledge of the nervous tissue, describe the glia cells of the nervous system.</li> </ol>
system.
2. Write short note on the following;
a) Transitional epithelium
b) Macrophages
c) Type III collagen fibres
d) Holocrine secretion
, — Tablifulli
3. With a detail explanations differentiate between a loose connective tissue and dense connective tissues.
4. Explain briefly the process of bone formation.
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# AKOBUNDU RICHARD

#### FACULTY OF MEDICAL LABORATORY SCIENCE COLLEGE OF MEDICINE AND HEALTH SCIENCES ABIA STATE UNIVERSITY, UTURU

COURSE TITLE: HISTOCHEMISTRY.

**COURSE CODE: ANA 241** 

TIME: 2HRS.

INSTRUCTION: ANSWER QUESTION (1) AND ANY OTHER (3) ONLY.

- 1. (a) What is Histochemistry and Cytochemistry?
  - (b) Add a note on the basic principles of Histochemistry/Cytochemistry.
- 2. Write on the methods used for enzyme demonstration.
- Periodic Acid Schiff (PAS) is one of the histochemical techniques used in the demonstration of carbohydrates (mucin or glycogen). Discuss.
- Write a very good essay on Radioautography.
- 5. Discuss Fluorescent Microscopy

3.401

# AKOBUNJU RICHARJ

#### ABIA STATE UNNIVERSITY, UTURU COLLEGE OF BASIC MEDICAL SCIENCES DEPARTMENT OF MEDICAL BIOCHEMISTRY BCM 221: CHEMISTRY AND METABOLISM OF CARBOHYDRATES AND **BIOMOLECULES** FIRST SEMESTER EXAMINATION 19/20 SESSION ATTEMPT ALL QUESTIONS

- 1(a) Why would defining carbohydrates as 'hydrates of carbon' not be 'totally' right?
  - 1(b) What suitable definition(s) could be suggested for the term
  - 2(a) Outline any four (4) features of enzymes.
- 2(b) Classify enzymes according to the type of reaction they catalyse.
- 2(C) Show by graphical representation how substrate concentration affects enzyme activity.
  - 3(a) Present and discuss a named biochemical pathway through which glucose molecules could be stored in a biological system. 3(b) What do you understand by lactose intolerance?
  - Using biochemical structures only, show acyclic monosaccharides are named based on:
- (i) Number of carbon atoms.
  - (ii) Positioning of the leading functional group.
  - 5. Write short notes on the following:
  - (i) Digestion of carbohydrates in the stomach.
  - (ii) Sugar acids.
  - (iii) Competitive inhibition.

# AKOBUNJU AICHARJ

Department of Medical Lab. Sciences **Faculty of Health Sciences** College of Medicine and Health Sciences Abia State University, Uturu Cardiovascular System **MED. LAB 231** 

Date: February 17, 2021

Instructions: Attempt all Time: 2hrs. Each question carries 20marks

THEORY

1a. Describe Pulmonary circulation with the aid of a diagram

b. List the components of pulmonary circulation

2a. List the cardiovascular adjustments (Adaptations) during exercise

b. How is the heat generated by the muscles during exercise regulated?

3. Define Cardiac Output.

b. State 5 Physiological and 2 Pathological factors that affect cardiac output.

4. List the phases of cardiac membrane potential

b. Discuss the ionic components any two (2) briefly  $2^{\circ}$ 

# AKOBUNJU RICHARJ

# ABIA STSTE UNIVERSITY, UTURU COLLEGE OF BASIC MEDICAL SCIENCES DEPARTMENT OF BIOCHEMISTRY FIRST SEMESTER EXAMINATION BCM 211: PHYSICAL AND ANALYTICAL BIOCHEMISTRY TIME: 2HOURS ANSWER ALL QUESTIONS

- 1. (a) Explain the terms: (i) Conjugate acid (ii) Weak acid (iii) pH and pK
  - (b) Strictly using the ionization of the acid, HD, derive the Handerson/ Hasselbalch equation.
  - (c) Present the form of the equation at half neutralization.
- 2. (a) Discuss the principles and application of these biochemical techniques:
  - (i) Chromatography (ii) Colorimetry (iii) Spectrophotometry
  - (b) Biochemical methods/instrumentation are of great relevance to medical laboratory scientist; Discuss.
- 3. (a) What is the volume percent of ethanol in wine made by diluting 15ml of ethanol in 85ml of wine?
- (b) Calculate the mass % of NaOH in a NaOH solution prepared by dissolving 8.5g of NaOH in 50.10g.
- 4. (a) What do you understand by the term osmolarity?
  - (b) Discuss the terms used in comparing osmolarity

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### DEPARTMENT OF HUMAN PHYSIOLOGY FACULTY OF BASIC MEDICAL SCIENCES ABIA STATE UNIVERSITY, UTURU

# Her worthage

## ANSWER ALL THE QUESTIONS:

- la) Define homeostasis, stating the components of a homeostatic control mechanism.
- b) Outline the various processes of transferring substances across the cell membrane.
- c) Draw and label a chemical synapse, state the various adrenergic and cholinergic receptors with the respective agonist and antagonists.
- 2) List out 5 causes of Abnormal fluid loss.
- 3) Classify types of Anaemia with examples.
- 4) List 4 complications of Abnormal fluid loss.

Maen

Thynoid

Harmo

## 2018/114959/Peg AKOBUNJU RICHARD

# DEPARTMENT OF MEDICAL LABORATORY SCIENCE, ABIA STATE UNIVERSITY, UTURU, FIRST SEMESTER EXAMINATION. GROSS ANATOMY (ANA 211).

03/02/2021 Time allowed: 1hr, 30mins

#### Section A (20marks)

	1.	The anterior boundary of the carpal tunnel is formed by a) scaphoid b) lunate c)
		capitates d) flexor retinaculum.
	2.	Nerve is damaged at the surgical neck of the humerus? A) radial b)
		musculocutaneous c) axillary d) long thoracic.
	3.	the thumb is also referred to as the?
	4.	The glenohumeral joint istype of joint by their degree of mobility? A) diarthrotic
		b) amphiathrotic c) synovial d) hinge.
	5.	The breast is kept in position by connective tissue? A) fascia b) pectoralis major c)
		suspensory ligament d) cooper's ligament.
	6.	The brachioradialis muscle is innervated by nerve?
	7.	is not a content of the femoral sheath.
	8.	is a unique landmark at the inferior end of the tibia?
	9.	The cephalic vein passes through groove to join the axillary vein?
		The Achilles tendon is inserted into the bone of the foot?
		The pisiform bone is what type of bone?
	12.	Type of glands exists in the breast?
	13.	What carpal bone is closely related to the anatomic snuff box?
	14.	Nerve is easily damaged at the midshaft of the humerus?
		The big toe is also referred to as
	16.	
		The knee cap is also known as
		The word "mama" means,
1	9 -	The mechanism of walking is referred to as
2	0 7	The muscles that originate from the scapula and insert at the greater and lesser tubercle of
_		he humerus are known as?
	ι	He humer as are known as
		(-)

#### Section B (50marks).

Attempt any 4 question. Question is compulsory.

- 1. Describe the origin, course, and distribution of the radial nerve.
  - 2. Write short note on the rotator cuff muscles, sitting origin, insertion and nerve supply.
  - 3. Describe the venous drainage of the upper limb, starting with the superficial veins.
  - 4. Discuss in details the applied anatomy of the arches of the foot.
  - 5. Describe the medial compartment of the femoral sheath.
  - 6. Write short note on the cubital fossa and its clinical correlates.

# ORAFOR DIVINE [NIMELSSA SECRETARY GENERAL 2019/2020]

Faculty of Basic Medical Sciences, **Department of Medical Laboratory Science** College of Medicine and Health Sciences, Abia State University. First Semester Examination.-CVS 24<sup>th</sup> May, 2019

Instructions.

Attempt All Questions.

Time: 2hrs, 25mins

1a. Define arterial blood pressure.

- b. With the aid of a diagram, describe Renin-Angiotensin-Aldosterone System (RAAS)
- (2a. Write a short note on special circulation through the skin.
- b. Describe pulmonary circulation with the aid of a diagram
- 3) The cardiovascular system responds to input from higher centers of the brain.
  - 4a. Describe briefly with the aid of a diagram, the conductive pathway of the heart.
  - b. State at least five (5) functions of the cardiovascular system.

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