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

FIRST SEMESTER EXAMINATION 300 LEVEL. 2020/2021 SESSION

COURSE TITLE: BASIC PARASITOLOGY/ MEDICAL ENTOMOLOGY

**COURSE CODE: MMP 321** 

TIME: 1hr 30mins

INSTRUCTION: ANSWER ALL QUESTIONS.

1) In a tabular form, differentiate between Amoebic and Bacillary dysentery.

2 (i) The Life cycle of Human Parasite can be divided into three (3) major groups.

Discuss this using the intermediate hosts.

Comrd. Uzom Solomon

DATE: 5/10/2021

- iii) Describe the life cycle of Ascaris Lumbricoides (Diagram very necessary).
- 3) Discuss the Life cycle, Pathogenicity and Laboratory Diagnosis of Malaria Parasite. (Diagram very necessary).
- 4) Write short notes on the following:
- i) Host parasite relationship.
- ii) Intermediate Host.
- iii) Congenital infection.
- iv) Parasitic portal of entry into the body.
- v) Parasite and sources of infection.
- vi) Hosts.

# COLLEGE OF MEDICINE & HEALTH SCIENCES, ABIA STATE UNIVERSITY, UTURU

COURSE TITLE: INSTRUMENTATION IN MEDICAL

**LABORATORIES** 

COURSE CODE: MLS 331. TIME: 2HRS. 1st Semester 2016/17

INSTRUCTION: ANSWER ALL QUESTIONS

Q1.] STATE THE PRINCIPLE OF HAEMOGLOBIN ELECTROPHORESIS AND DESCRIBE
HOW YOU WILL RUN ELECTROPHORESIS ON A GIVEN BLOOD SAMPLES

- Q2.] DESCRIBE THE PRINCIPLES, TYPES, USE AND CARE OF CENTRIFUGE?
- B. STATE THE DIFFERENCE BETWEEN BOILING AND AUTOCLAVING? \*
- C. DISCUSS ANAEROBIC SYSTEMS?

# Comrd. Uzom Solomon

3A] WRITE AN ESSAY ON THE OPERATING PROCEDURE AND THE COMPONENTS
OF A COLOURIMETER.

3B) STATE THE APPLICATION OF FLAME EMISSION PHOTOMETER.

Q4.].LIST THE TYPES OF MICROTOME. WRITE A GOOD ESSAY ON THE FIRST MICROTOME

# ABIA STATE UNIVERSITY, UTURU

FACULTY OF MEDICAL LABORATORY SCIENCE COLLEGE OF MEDICINE AND HEALTH SCIENCES FIRST SEMESTER 2020/2021 SESSION EXAMINATION Friday 15th October, 2021.

COURSE TITLE:

INTRODUCTION TO MEDICAL LABORATORY SCIENCE

COURSE CODE: TIME ALLOWED: MLS 311 2 HOURS

INSTRUCTION:

ANSWER ALL QUESTIONS

- 1. (a) Discuss Ziehl-Neelsen Staining Technique.
  - (b) State the difference between a gram positive and gram negative cell wall.
- 2. (a) Mention 4 visual methods of Haemoglobin Estimation.
  - (b) State the Principle and method of Sahli Haemoglobin Estimation.

# Comrd. Uzom Solomon

- (a) Write a very good essay on Fixation.
  - . (b) List the Tissue Processing Procedures in order
  - 4. (a) Discuss succinctly any qualitative method of urine protein determination.
    - (b) Write short notes on the following
      - i. Thin Layer Chromatography
      - ii. Flame Emission Photometry

had fuelism

# FACULTY OF MEDICAL LABORATORY SCIENCE COLLEGE OF MEDICINE AND HEALTH SCIENCES,

ABIA STATE UNIVERSITY, UTURU.

**COURSE TITLE: PHARMACOLOGY 1** 

COURSE CODE: PHM 311. TIME: 1 HOUR. 30 MINS. 1st Semester 2020/2021.

INSTRUCTIONS: 1. Answer all questions. 2. Phones or electronic gadgets are not allowed into the examination hall.

- 1. a) write short note on the following branches of Pharmacology:
  - i Clinical pharmacology.
  - ii Psycho Pharmacology.
  - iii Toxicology. Comrd. Uzom Solomon
  - b) What is drug receptor?
  - c) Outline any four sources of substances used as drugs.
- 2. a) List two major routes of drug administration and three disadvantages of each route.
- → b) Explain five factors that can affect oral absorption of drugs.
- 3. a) Define Pharmacokinetics.
  - b) Explain any three of the following terms: (i) Bioavailability, (ii) Half life, (iii) Microsomal enzymes, and (iv) Phase II metabolism of drugs.
  - 4. Discuss any three outcome of drug metabolism.

GOODLUCK

ABIA STATE UNIVERSITY, UTURU
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF MEDICAL LABORATORY SCIENCE
FIRST SEMESTER 2020/2021 EXAMINATION
COURSE: ENTREPRENEURSHIP SKILLS: MLS 301
DATE: 21/09/21, TIME ALLOWED: 2 HOURS

### SECTION A: ATTEMPT FOUR QUESTIONS. NO STORIES

1. (a). In two sentences, state the differences between wage employment and entrepreneurship.

(b). In one sentence, define who an Infropreneur is.

(c). In one sentence for each, differentiate the term Entrepreneurship from Intrapreneurship.

(d) In one sentence, describe who a workaholic is.

- (e) State the current unemployment rate, underemployment rate and youth unemployment rate of Nigeria according to the National Bureau of Statistics (NBS, 2021 (Q2).
- 2. (a) Mention names of three 3 phenomenal entrepreneurs in the world and 3 from Nigeria.

(b). State the differences between a manager and an entrepreneur.

- (c). In one sentence for each, mention the four core functions and three main roles of the manager in ensuring that organizational goals and objectives are achieved.
- (d). In one sentence for each, differentiate between the three ranges of plans.
- (c). In one sentence for each, describe five types of skills required by an entrepreneur.

3. (a). Before a business fails, there are some red alerts that evidence themselves

Briefly state them.

- (b). Freely comment on the "I have arrived" and "filing behind the crowd" syndromes of most Nigerian entrepreneurs.
- (c). Specify the sources of capital available to the entrepreneur?
- 4. (a). In one sentence for each define the terms 'business ethics and social responsibility of business'.
  - (b). State one reason why regular check up is very important to an entrepreneur.
  - (c). State one reason why biofeedback is important to the health of an entrepreneur.
  - (d). Identify the types of insurance available to an entrepreneur.
  - (e). Identify the three basic ways of business ownership in Nigeria

buy

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

COURSE TITLE: INSTRUUMENTATION IN MEDICAL

**LABORATORIES** 

COURSE CODE: MLS 331.

TIME: 2HRS.

1<sup>ST</sup> SEMESTER 2020/2021

INSTRUCTION: ANSWER ALL QUESTIONS

20/09/2021

1a. Describe an Incubator.

1b. Write short note on testing the efficacy of an autoclave.

2a. State the principle of coulter counter.

2b. Mention the 2 common types of designs and describe one of them in details.

Comrd. Uzom Solomon

3a. Discuss Vacuum impregnation oven.

3b. List at least 5 types of microtome.

4a. State the principle and classification of Chromatography.

4b. Discuss Spectrophotometer.

ABORATORY SCIENCE

### ABIA STATE UNIVERSITY UTURU

COLLEGE OF MEDICINE AND HEALTH SCIENCES
DEPARTMENT OF MEDICAL LABORATORY SCIENCE
FIRST SEMESTER EXAMINATION QUESTIONS FOR 2020/2021 SESSION.

COURSE: MLS 321- BIOMEDICAL PHYSICS

### INSTRUCTION: ANSWER QUESTION 1 AND ANY OTHER TWO.

- 1(a). Define a cell and state the three (3) different organelles that consists the human cell.
- b). State three (3) differences between the somatic cells and the gamete cells.
- c). State and explain the four anatomical planes of the human body.
- State clearly the importance of the course Biomedical physics to you as a medical laboratory scientist.
- e) If the resistors have values R<sub>1</sub> =20ohms, R<sub>2</sub> = 20 ohms. Calculate the transfer function and the output voltage if the input voltage is 3600W.
- 2a) Define Rectification and explain the use of rectifier in some electronic instruments.
- b) Find the voltage between two points if 80J of energy are required to move a charge of 20C between the two points.
- c) Define Ohm's Law and Joule heating
- d) Explain the three (3) classes of materials based on their ability to conduct or resist current flow.
- -3a). Explain the term Calibration. State two reasons why medical instruments may suffer drift.
  - b) List five (5) parts of the PMT tube and explain the function of each
- c) An LED has a designed current of 20mA. Calculate the current limiting resistance if the voltage supplied is 20V. (Gap voltage = 1.2V)
- d) Differentiate between a Stimuli test equipment and Measurement test equipment. State three (3) examples each.
- 14a) Define Electronic Troubleshooting
  - b). State five (5) fundamental steps of troubleshooting
- c) Differentiate with a diagram, a diode and a transistor.
- d) The resistor and capacitor of a low pass filter has values 50hm and 4 farad respectively, calculate the characteristic frequency of such filter.

wout = Vin

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

COURSE TITLE: INSTRUMENTATION IN MEDICAL

LABORATORIES

COURSE CODE: MLS 331. TIME: 2HRS. 1st Semester 2014/15

INSTRUCTION: ANSWER ALL QUESTIONS

Q1.LIST THE TYPES OF MICROTOME, WRITE A GOOD ESSAY ON THE FIRST MICROTOME.

Genetype Q2A. STATE THE PRINCIPLE OF HAEMOGLOBIN ELECTROPHORESIS

# Comrd. Uzom Solomon

Q28. DISCUSS BRIEFLY IT'S USF

Q 3A. DESCRIBE THE USE AND CARE OF WATER BATH.

Q3B. WRITE SHORT NOTE ON HOT AIR OVEN.

Q4A SHOW IN A SCHEMATIC DIAGRAM THE COMPONENT OF A COLOURIMETER. Q4B. CLASSIFY CHROMATOGRAPHIC INSTRUMENTS USED IN LABORATORY PRACTICE.

Q5. DISCUSS VACCUM - IMPREGNATION OVEN.

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

COURSE TITLE: INSTRUMENTATION IN MEDICAL LABORATORIES COURSE CODE: MLS 331. TIME: 2HRS. 1st Semester 2017/18 INSTRUCTION: ANSWER FOUR QUESTIONS

Q1A; Discuss the working principle of Flame Emission photometer.

1b; Write a short note on the essential parts of the instruments used

in measuring Absorbance and also state the major difference

# between the instruments Comrd. Uzom Solomon

Q2. DISCUSS VACCUM - IMPREGNATION OVEN.

Q3. State the principle of Heamoglobin genotype electrophoresis and describe how you will run the genotype of a 6 years old sick child.

Q4A. Describe an incubator. [B] write short note on testing the Efficacy of an autoclave.

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

COURSE TITLE: BASIC PARASITOLOGY/ MEDICAL ENTOMOLOGY

COURSE CODE: MMP 321. TIME: 2HRS. SEMESTER 2018/19

DATE: 17TH MAY, 2019

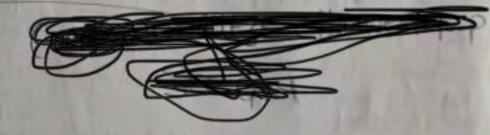
INSTRUCTION: ANSWER ALL QUESTIONS

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- 1) In a tabular form state the differences between Anaerobic dysentery and
  Bacilliary dysentery. Comrd. Uzom Solomon
- 2) Write an essay on life cycle of Entamoeba histolytica and its pathogenesis
- 3) Write an Essay on the Life cycle of Malaria parasite and its pathogenesis
- 4) Write short notes on the following:
  - a) Life cycle of Balantidium coli
  - b) Latrogenic infection
  - c) Autoinfection
  - d) Intermediate host

Intermediate hot in the

e) zoonosis





### ABIA STATE UNIVERSITY, UTURL

### **FACULTY OF MEDICAL LABORATORY SCIENCE**

### FIRST SEMESTER EXAMINATION

Course title: General Microbiology

Cause cute: MMP311 -

Comrd. Uzom

Solomon

5. In a tabelle force, differentian between Farigi, Algae and Postness

2. Using a well tabeled diagram write on the organization of a burneriol cell.

3. Diamete bull robust fraunt to Food, Wyster, Sort and Phains

4. Write breedly on the following

A. Laboratory Assettals

H. Mathada of Microsop control

C. Venne

D Visition famoust barrens Swife's --

E. Pointitte Alger

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

COURSE TITLE: BASIC PARASITOLOGY MEDICAL ENTOMOLOGY

COURSE CODE: MMP 321. TIME: 2HRS. 1ST SEMESTER 2018/19

DATE: 17TH MAY, 2019

INSTRUCTION: ANSWER ALL QUESTIONS

AMPEBIC

- In a tabular form state the differences between Anaerobic dysentery and
   Bacilliary dysentery
- 2) Write an essay on life cycle of Entamoeba histolytica and its pathogenesis
- /3) Write an Essay on the Life cycle of Malaria parasite and its pathogenesis
  - 4) Write short notes on the following:
    - a) Life cycle of Balantidium coli
    - Comrd. Uzom Solomon
      - c) Autoinfection
      - d) Intermediate host
      - e) zoonosis

ECT	ION B: SUBJECTIVE QUESTIONS - Supply the answers in your booklet
	has become a major national problem of graduates of Nigerian tertiary
1.	
	That education which assists students to develop positive attitudes, innovation and
2.	skills for self reliance, rather than depending on the government for employment is
	known as Enterprending Sus
120	is a person who has agreed to work for some form of payment under a contract of
3.	
	service.
4.	A thinker or frustrated professional who decides to start his/her own business refers to
5.	refers to an individual who starts working on his or her own, then build a
	large company through astute hiring, delegation and organizational abilities.
6.	An entrepreneur who starts a new enterprise but quickly loses interest, sells it off after
7.	meeting the challenge and uses the money to start a new one is known as is the individual who recognizes a particular business concept
	that has the notantial to be duplicated
8.	A person who takes over an existing business due to existing good will is how
9.	The entrepreneurs who have their fortunes in property are called refers to an entrepreneur buys companies with problems, but potential for
10.	profi Compard Uzom Solomon
11.	Melure man describes an entrepreneur who acquires an asser at a low price, men
	legally manipulates the financial structure so that it appears to be worth a lot more.
12.	refers to an individual who looks on his/her business as a lifetime employment to be nurtured and developed at every at every stage from start-up to profitability.
13	Conglonaral is the entrepreneur who obtains control of one company, then uses
	shares of that company to buy control of their business.
14.	An entrepreneur with the capacity to raise large sums of money through investors or
	otherwise is known as Acquirer
15.	A male head of a family business is a while the female head refers to a refers to a "look before you leap" document.
	What is the full meaning of NAFDAC
	A situation whereby a business owner is legally forced to use his personal money and
	possessions to pay the debts of his business refers to Labelly
10	A situation whereby a business owner cannot be legally forced to use his personal
	money and possessions to pay his business debt refers to Hatel labelety
20.	
	the producer to the consumer, including advertising, shipping, storing and selling

COLLEGE OF MEDICAL LABORATORY SCIENCE COLLEGE OF MEDICALE & HEALTH SCIENCES.

ABIA STATE UNIVERSITY,

UTURU

COURSE TITLE: INSTRUMENTATION IN MEDICAL
LABORATORIES
COURSE COOK: MLS 331. TIME: 2HRS. 1<sup>rt</sup> Semester 2014/15
INSTRUCTION: ANSWER ALL QUESTIONS

MICROTOME.

COA STATE THE PRINCIPLE OF HARMOGLOBIN ELECTROPHORESIS

COST DISCUSS BRIEFLY IT'S USE

O MA DESCRIBE THE USE AND CASE OF WATER BATH

COM WRITE SHORT NOTE ON HOT AIR OVEH

# Comrd. Uzom Solomon

DISA SHOW IN A SCHEMATIC DIAGRAM THE COMPONENT OF A COLDURING TO

DABL CLASSIFY CHROMATOGRAPHIC INSTRUMENTS USED IN LABORATORY

PRACTICE

OS CASCUSS VACCUM - IMPREGILATION OVEN

# COLLEGE OF MEDICINE AND HEALTH SCIENCES, ABIA STATE UNIVERSITY, UTURU.

COURSE TITLE: PHARMACOLOGY 1

COURSE CODE: PHM 311. TIME: 1 HOUR. 30 MINS. 1st Semester 2018/2019.

INSTRUCTIONS: 1. Answer all questions. 2. Phones or electronic gadgets are not allowed into the examination hall.

- 1. a) write short note on the following branches of Pharmacology:
  - i Clinical pharmacology.
  - ii Psycho Pharmacology.
  - iii Toxicology. Comrd. Uzom Solomon
  - b) What is drug?
  - c) outline five features of substances used as drugs.
- a) List two major routes of drug administration and three disadvantages of each route.
  - b) Explain briefly four factors that can affect oral absorption of drugs.
- 3 a) Define Pharmacokinetics. (b) Explain any three of the following terms: (i) Bioavailability, (ii) Half life, (iii) First-Pass metabolism, and (iv) Phase II metabolism of drugs.
- 4 Discuss any three mechanisms of drug action.

# ABIA STATE UNIVERSITY, UTURU FACULTY OF MEDICAL LABORATORY SCIENCE 2019/2020 SESSION FIRST SEMESTER EXAMINATION 10TH FEBRUARY, 2021

COURSE TITLE:

INTRODUCTION TO MLS

COURSE CODE:

MLS 311

TIME:

2 HOURS

INSTRUCTION:

ANSWER ALL QUESTIONS

# Comrd. Uzom Solomon

- 1. (a) List the materials you need for the preparation of thin film.
  - (b) Describe how you will prepare and stain a thin film with Leishman's Stain.
  - 2. (a) Describe Gram Staining principle and methods.
    - (b) State the hanging drop preparation.
- 3. Write exhaustively on Fixation.
- (a) Succinctly explain the application of Beer-Lambert's Law in Clinical Chemistry.

DAS HELD

(b) Write briefly on the physical examination of urine.

# COLLEGE OF MUDICAL LABORATORY SCIENCES, ABIA STATE UNIVERSITY, UTURN.

COURSE TITLE PHARMACOLOGY I

COURSE CODE: PHN# 315, TBHE: 1 HOUR, 92 MINUS. 3" Semester 2015/2010.

INSTRUCTIONS: 1. Answer all questions. 2. Phones or electronic gargets are not allowed into the experination hall.

- 1. a) write short note in the following branches of Phormacology:
  - i. (Divical pharmacology
  - ii Paycho Pharmacology.
  - III. THISCORY.
  - Special restaurance
  - c) Outline five fraguess of subspaces used as drugs.
- 2. a) List two major routes of drug administration and three

disadvantages of each route.

h) Outline five factors that can affect oral absorption of

# -Comrd. Uzom Solomon

- 5. a) Define Pharmacokinetics.
  - b) Explain any three of the following terms: (i) Bicavariability, (ii) Half life, (iii) First-Paus metabolism, and (iv) Phase III metabolism of drugs.
- A. Discuss any fivee machinisms of drug action.

GOODLINGE

# COLLEGE OF MEDICINE AND HEALTH SCIENCES, ABIA STATE UNIVERSITY, UTURU.

**COURSE TITLE: PHARMACOLOGY 1** 

COURSE CODE: PHM 311. TIME: 1 HOUR. 30 MINS. 1" Semester 2019/2020.

INSTRUCTIONS: 1. Answer all questions. 2. Phones or electronic gadgets are not allowed into the examination hall.

- 1. a) write short note on the following branches of Pharmacology:
  - i Clinical pharmacology.
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  - b) What is drug?
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- a) List two major routes of drug administration and three disadvantages of each route.
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- 3. a) Define Pharmacokinetics.
  - b) Explain any three of the following terms: (i) Bioavailability, (ii) Half life, (iii) First-Pass metabolism, and (iv) Phase II metabolism of drugs.
- 4. Discuss any three mechanisms of drug action.

GOODLUCK

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

COURSE TITLE: INSTRUMENTATION IN MEDICAL

**LABORATORIES** 

COURSE CODE: MLS 331. TIME: 2HRS. 1st Semester 2016/17

INSTRUCTION: ANSWER ALL QUESTIONS

Q1.] STATE THE PRINCIPLE OF HAEMOGLOBIN ELECTROPHORESIS AND DESCRIBE HOW YOU WILL RUN ELECTROPHORESIS ON A GIVEN BLOOD SAMPLES

- Q2.] DESCRIBE THE PRINCIPLES, TYPES, USE AND CARE OF CENTRIFUGE?
- B. STATE THE DIFFERENCE BETWEEN BOILING AND AUTOCLAVING?
- C. DISCUSS ANAEROBIC SYSTEMS?

# Comrd. Uzom Solomon

3A] WRITE AN ESSAY ON THE OPERATING PROCEDURE AND THE COMPONENTS OF A COLOURIMETER.

3B) STATE THE APPLICATION OF FLAME EMISSION PHOTOMETER.

Q4.].LIST THE TYPES OF MICROTOME. WRITE A GOOD ESSAY ON THE FIRST MICROTOME

COURSE TITLE: INSTRUMENTATION IN MEDICAL

LABORATORIES

2HRS. 14 Semester 2016/17 COURSE CODE: MLS 331

INSTRUCTION: ANSWER ALL QUES

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OIL) STATE THE PRINCIPLE OF HADWOOLDSIN ELECTROPHORESIS AND DESCRIBE HOW YOU WILL RUN ELECTROPHORESIS ON A GIVEN BLOOD SAMPLES

02.7 DESCRIBE THE PRINCIPLES, TYPES, USE AND CARE OF CENTRIFUGE?

STATE THE DIFFERENCE BETWEEN BOILING AND AUTOCLAVING?

DISCUSS ANAEROSIC SYSTEMS?

# Comrd. Uzom Solomon

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OF A COLOURIMETER.

3B) STATE THE APPLICATION OF FLAME EMISSION PHOTOMETER

MICROTOME

PACULTY OF MEDICAL LABORATORY SCIENCES, COLLEGE OF MEDICINE & HEALTH SCIENCES, ABIA STATE UNIVERSITY, UTURNS

COURSE TITLE: BASIC MLS PROCEDURE
COURSE CODE: MLS211. TIME: 2HRS. 1º Semester 2018/17

INSTRUCTION: ANSWER ALL QUESTIONS.

O1. DESCRIBE THE PREPARATION OF THIN SLOOD FILM AND DESCREEN DETAIL HOW YOU WILL STAIN A THIN FILM USING LEISHMAN STAIN

GE AL COLORIMETRY AND SPECTROPHOTOMETRY ARE ANALYTICAL

PECHNIQUES EMPLOYED IN CLINICAL CHEMISTRY, STATE THE

OPERATING PRINCIPLE AND LAW GLIDING THE TECHNIQUE WITH A

NOTE ON ITS APPLICATION.

# Comrd. Uzom Solomon

BY LIST THE BYDOHEMICAL COMPONENTS OF URINE SAMPLE THAT CAN

BE ANALYSED IN THE CLINICAL CHEMISTRY LABORATORY

QUAL STATE THE GRAM STAINING PRINCIPLE AND METHOD?

- B. WRITE SHORT NOTES ON THE FOLLOWING VIZ. L. PIPETTESH. WIRELOOP III. DWAB STICK
- C. DISCUSS THE HANGING DROP PREPARATION-

04) WRITE A BRILLIANT ESSAY ON DECALCIFICATION.

# ABIA STATE UNIVERSITY UTURU FACULTY OF MEDICAL LABORATORY SCIENCES DEPARTMENT OF MEDICAL MICROBIOLOGY

FIRST SEMESTER EXAMINATION

13th October 2021

COURSE: MMP 311 GENERAL MICROBIOLOGY TIME: 2HRS

INSTRUCTIONS:

ANSWER ALL QUESTIONS

a. Using well labeled diagrams differentiate between prokaryotes and eukaryotes.

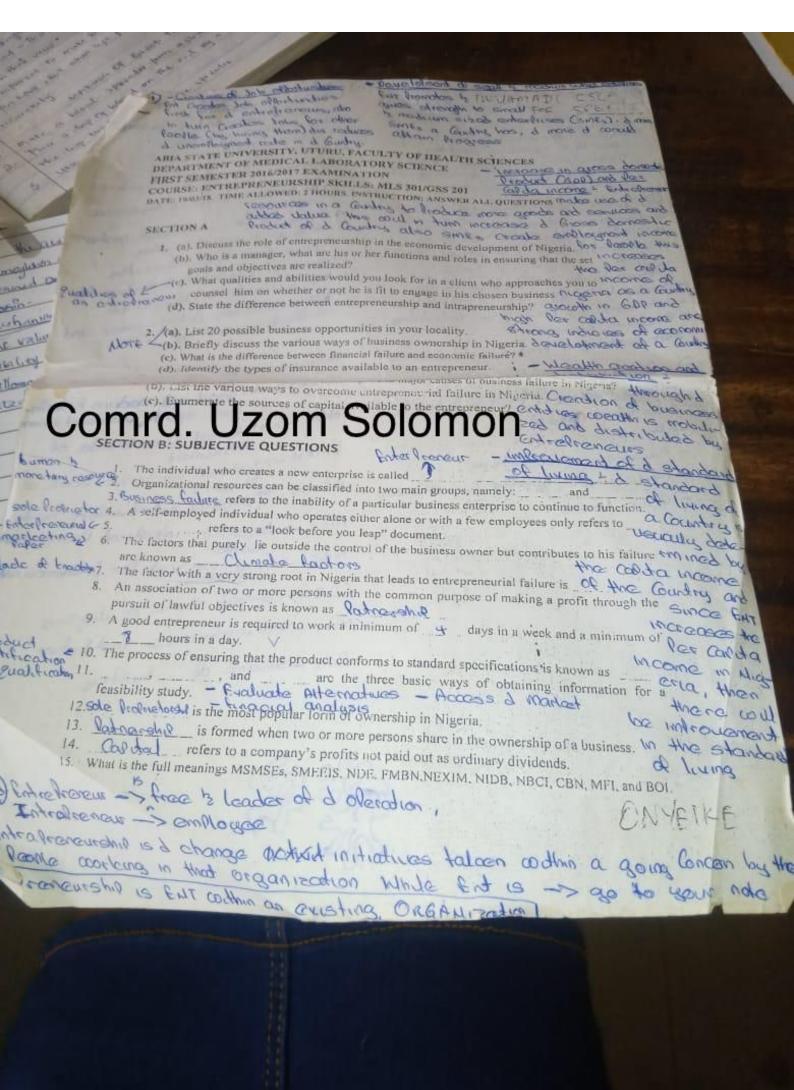
b. How do Archaea differ from Bacteria

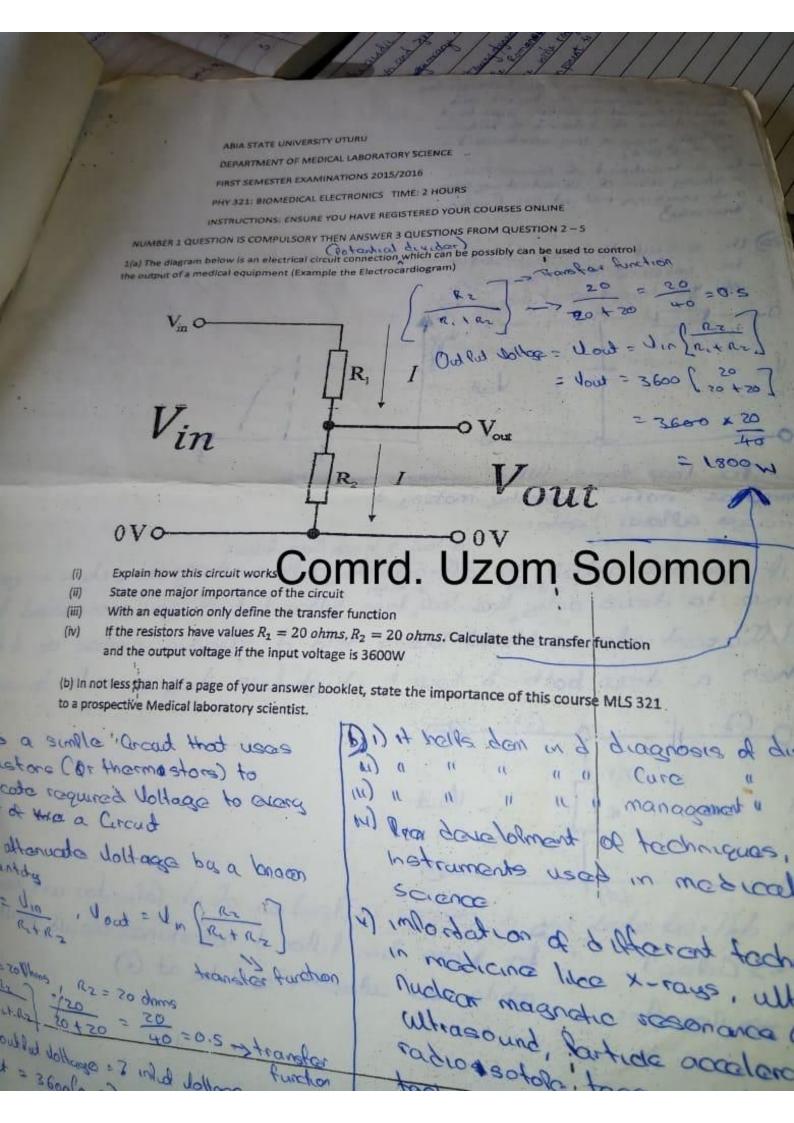
2. Write on the economic importance of fungi

3. Discuss the characteristics of viruses

# Comrd. Uzom Solomon

- 4. Explain the following terms
  - a. Microbial Death
  - b. Sterilization
  - c. Pasteurization
  - d. Disinfectants
  - e. Filtration





# COLLEGE OF MEDICINE & HEALTH SCIENCES, ABIA STATE UNIVERSITY, UTURU

COURSE TITLE: COURSE CODE: PARASITOLOGY / ENTOMOLOGY MMP 321; 1<sup>ST</sup> SEMESTER 2016/17

TIME: 2HRS.

INSTRUCTION: ANSWER ONLY FOUR (4) QUESTIONS

- Tabulate the differences between
  - (i) Entamoeba histolytica and Entamoeba coli
  - (ii) Amoebic and Bacilliary dysentery
- Dicuss the morphology, life cycle and pathogenicity of Trypanosoma brucei gambiense
- 2. Discuss the life cycle and pathogenicity of malaria parasites
  - Discuss the life cycle and pathogenicity of Taenia solium and Taenia saginata
  - 5. Discuss the life cycle, pathogenicity and laboratory diagnosis of Ascard lumbricoides Comrd. Uzom Solomon
  - 6. Write short notes on:
    - (a) Parasite
    - (b) Host
    - (c) Sources of infection of parasites
    - (d) Portal of entry of parasites
    - (e) Organelles of locomotion in parasites

# ABIA STATE UNIVERSITY, UTURU

COLLEGE OF MEDICINE AND HEALTH SCIENCES FACULTY OF MEDICAL LABORATORY SCIENCE

FIRST SEMESTER EXAMINATION 2019/2020 300L COURSE TITLE: BASIC PARASITOLOGY/MEDICAL ENTOMOLOGY CODE: MMP 321 TIME: 1 HOUR 30 MINUTES DATE: 12TH FEB., 2021

**3 CREDIT UNITS** 

Instruction - Answer all questions.

 Discuss the morphology, life cycle, pathogenicity and laboratory diagnosis of *Trichomonas vaginalis* (include diagrams where necessary)

Comrd. Uzom Solomon

- Discuss the Geographical Distribution, Habitat, Morphology and Life
   Cycle of Entamoeba histolytica (include diagrams where necessary)
- (i) The life cycle of human parasites can be divided into three major groups. Discuss/classify using intermediate hosts –
  - (ii) Give five examples of each group
  - (iii) Describe the life cycle of one parasite only with diagram.
- 4. Write short notes on the following with examples
  - (i) Sources of parasitic infection
  - (ii) Portals of parasitic infection into the body.
  - (iii) Lytic necrosis
  - (iv) Latrogenic infection
  - (v) Congenital infection.

otostyle

# ABIA STATE UNIVERSITY, UTURLI FACULTY OF MEDICAL LABORATA COLLEGE OF MEDICAL SECOND SEM

ABIA STATE UNIVERSITY UTURU

FACULTY OF MEDICAL LABORATORY SCIENCES

DEPARTMENT OF MEDICAL MICROBIOLOGY

FIRST SEMESTER EXAMINATION

2019/2020 SESSION

18th Feb 2021

COURSE:

GENERAL MICROBIOLOGY **MMP 311** 

TIME: 2HRS

INSTRUCTIONS:

ANSWER ALL QUESTIONS

- Write on the differences between eukaryotic and prokaryotic microorganisms.
- 26. In a tabular form differentiate between Algae, Protozoa, Fungi and Bacteria.
- 27. What are Viruses. Discuss the characteristics of viruses
- 48. Write briefly on the following
  - E. Gram Staining Comrd. Uzom Solomon

  - G. Virulence factors of bacteria
  - H. Differences between RNA and DNA
  - ) Estimation of haemoflobin Blood Films a marchotogical variation in Red blood Cells

COURSE TITLE: INSTRUMENTATION IN MEDICAL

LABORATORIES COURSE CODE: MLS 331. TIME: 2HRS. 1st Semester

INSTRUCTION: ANSWER ALL QUESTIONS

Q1.] STATE THE PRINCIPLE OF HAEMOGLOBIN ELECTROPHORESIS AND HOW YOU WILL RUN ELECTROPHORESIS ON A GIVEN BLOOD SAMPLES

Handad ( QZ.) DESCRIBE THE PRINCIPLES, TYPES, USE AND CARE OF CENTRIFUGE?

B. STATE THE DIFFERENCE BETWEEN BOILING AND AUTOCLAVING?

C. DISCUSS ANAEROBIC SYSTEMS?

# Comrd. Uzom Solomon PONENTS

3A] WRITE AN ESSAY ON THE OPERATING PROCEDURE AND

OF A COLOURIMETER.

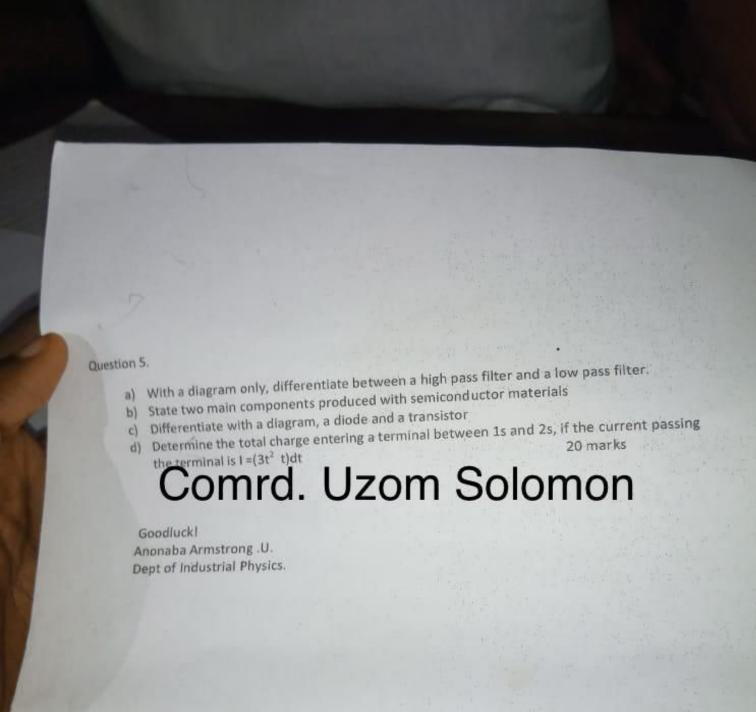
3B) STATE THE APPLICATION OF FLAME EMISSION PHOTOMETER

Q4.].LIST THE TYPES OF MICROTOME. WRITE A GOOD ESSAY ON THE FIRST

# MICROTOME

ciple of Haramaglobin Electrophonesis! Madine pH, haemoglobin is a negatively ged hadan and cohan sublected to troPhoresis coul migrate toward the 2 (4). Structural Variants that have ge in the a changing e on the is relect light e of the molecule at allealine plt coul de from hacmoglobin A. emoglobin variants that have an amino establishment is internative safed

may not solarable and those the have an amino and substitution has no affact on overall change not separate by electrothore How to sup Alactrophorous Given blood sample - Noce analyable subbit medium. collulose acetate or agar to clockrothorous chamber - Place the buffer of allrollia the electrode chamber of clastrolhorases - Local the sull out modium in the buffer eserall to an



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

COURSE TITLE: PHARMACOLOGY 1

COURSE CODE: PHM 311. TIME: 1 HOUR. 30 MINS. 1st Semester 2019/2020.

INSTRUCTIONS: 1. Answer all questions. 2. Phones or electronic gadgets are not allowed into the examination hall.

- a) write short note on the following branches of Pharmacology:
  - i Clinical pharmacology.
  - ii Psycho Pharmacology.
  - iii Toxicology.
  - b) What is drug?
  - c) Outline five features of substances used as drugs.
- 2. a) List two major routes of drug administration and three disadvantages of each route.
  - b) Outline five factors that can affect oral absorption of

drugs. Comrd. Uzom Solomon

- 3. a) Define Pharmacokinetics.
  - b) Explain any three of the following terms: (i) Bioavailability, (ii) Half life,
  - (iii) First-Pass metabolism, and (iv) Phase II metabolism of drugs.
- 4. Discuss any three mechanisms of drug action.

GOODLUCK

# Comred STATE UNIVERSITY UTURU EACULTY OF THE UNIVERSITY UTURU SOLOMON

DEPARTMENT OF MEDICAL MICROBIO

2019/2020 SESSION

18th Feb 2021

FIRST SEMESTER EXAMINATION MMP 311 GENERAL MICROBIOLOGY TIME: 2HRS

COURSE:

INSTRUCTIONS:

ANSWER ALL QUESTIONS

- Write on the differences between eukaryotic and prokaryotic microorganisms. In a tabular form differentiate between Algae, Protozoa, Fungi and Bacteria.
- What are Viruses. Discuss the characteristics of viruses
- 4 Write briefly on the following
  - A. Gram Staining
  - B. Dimorphism
- C. Virulence factors of bacteria
- D. Differences between RNA and DNA

ABIA STATE UNIVERSITY, UTURU

FACULTY OF HEALTH SCIENCES

DEPARTMENTENT OF MEDICAL LABORATORY SCIENCES

FIRST SEMESTER EXAMINATION FOR 2019/2020 SESSION

COURSE: MLS 321: BIOMEDICAL PHYSICS

TIME ALLOWED: 1 HOUR 30 MINS

INSTRUCTION: ATTEMPT ANY FOUR (H) QUESTIONS.

### Question 1.

- a) Define these five(5) basic electricity concepts in Biomedical Physics, i)Voltage ii) Current iii)
- Direct current (v) Resistance v) Power.
- c) State and explain the three classes of materials based on their ability to conduct or resist the b) State ohm's law and explain the concept of joule heating.
- d) If 750C of charge passes through a circuit in a time interval of 2 minutes, what is the

# Comrd. Uzom Solomor

- a) Explain the use of a measurement Test Equipment and state the uses of the following biomedical electronic meters i) Ammeter ii) Voltmeter iii) Multimeter iv) Oscilloscope
- b) Differentiate between Counters and Logic Probes
- c) Define Electronic Troubleshooting and state five(5) fundamental steps of troubleshooting.
- d) An LED has a designed current of 10mA. Calculate the current limiting resistance if the voltage supplied is 20V. (Gap voltage = 1.2V). 20 marks

### Question 3.

- a) With an equation only, define the transfer function
- b) The resistor and capacitor of a low pass filter has values 10 ohm and 7 farad respectively, calculate the characteristic frequency of such filter.
- c) State convincingly, the importance of the course, Bio-medical Physics to a prospective Medical laboratory Scientist.
- d) Using a diagram, show how the Signal to Noise (SNR) of a medical equipment can be improved

### Question 4.

- a) Explain the term Calibration. State two reasons why medical instrument may suffer drift.
- b) List five(5) parts of the PMT tube and explain the function of each.
- c) Copper has the resistivity value of 1.68x10-8 ohmmeter and Teflon has a resistivity of over 1023. Explain reason why you will use any of these materials as a safety device.
- d) Find the voltage between two points if 60J of energy are required to move a charge of 20 marks 20C between the two points.

ABIA STATE UNIVERSITY, UTURU
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF MEDICAL LABORATORY SCIENCE
FIRST SEMESTER 2019/2020 POST COVID EXAMINATION
COURSE: ENTREPRENEURSHIP SKILLS: MLS 301
DATE: 09/02/21. TIME ALLOWED: 2 HOURS

# SECTION A: ATTEMPT FOUR QUESTIONS. NO STORIES

- X. (a) Define the entrepreneurship.
  - (b) State the difference between a manager and an entrepreneur.
  - (c) List and explain 3 forms of business ownership known to you.
  - (d). Why is common sense regarded as a basic quality for every entrepreneur?
- (a) Mention the qualities and abilities you would lookout for in a client who approaches you to counsel him on whether or not he is fit to cngage in his chosen business?
  - Comrd. Uzom Solomon
  - (a) Define feasibility study.
  - (b). What are the contents of a good feasibility study?
- 4. (a) List 10 possible business opportunities in your locality.
  - (b). Mention and explain the sources of capital available to the entrepreneur?
  - (c) State the difference between financial failure and economic failure?
  - (d) Mention 5 common signs and explain 10 major causes of business failure in Nigeria?
  - (e). List the various ways to overcome entrepreneurial failure in Nigeria.
- 5. Who is a manager, what are his or her functions and roles in ensuring that the set goals and objectives are realized.

grs treis

### ABIA STATE UNIVERSITY UTURU DEPARTMENT OF MEDICAL LABORATORY SCIENCES FIRST SEMESTER EXAMINATIONS

COURSE:

MMP 311 - GENERAL MICROBIOLOGY

2 HOURS

DATE: 13TH MARCH, 2017

Answer all the questions TIME:

INSTRUCTION:

1. What are viruses? Outline the characteristics of viruses

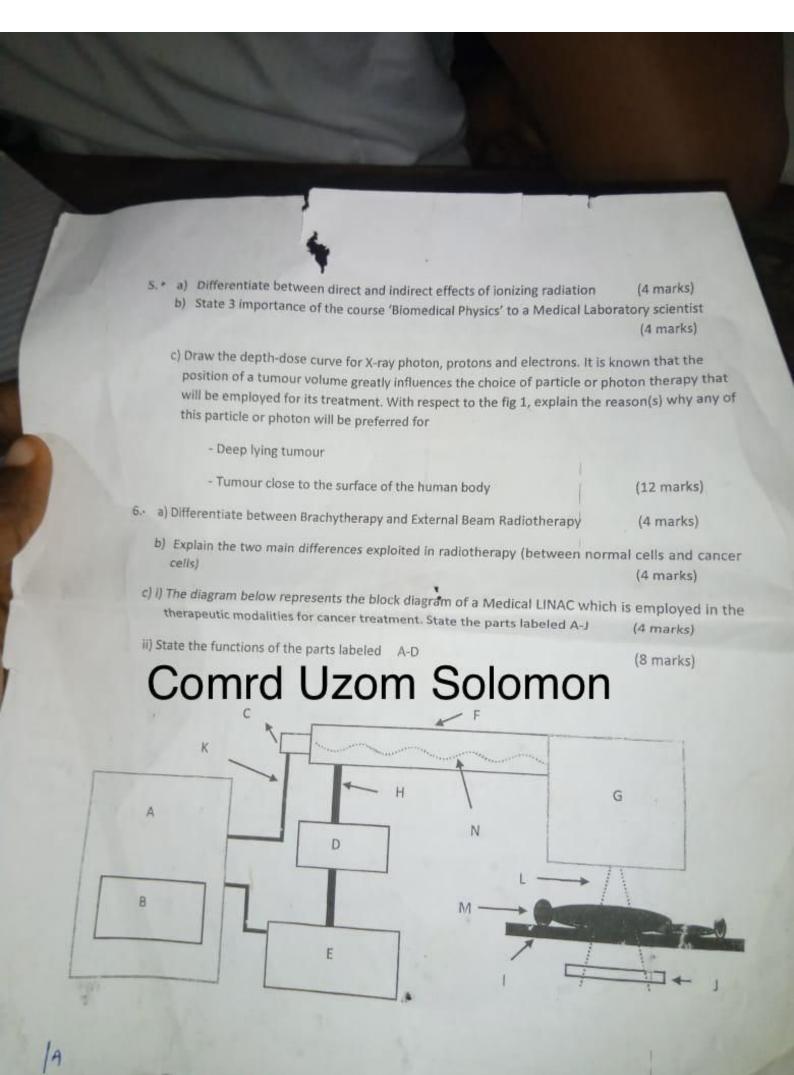
that make them unique from other microorganisms.

2. Using diagrams, differentiate between a prokaryotic and eukaryotic cell.

- Write briefly on the following:
  - (a) Diatomaceous earth
  - Sterilization Comrd. Uzom Solomon (b)
  - (C)
- Microbiocide (d)
- (e) Lyophilization
- 4. (a) List four agents of physical control of microorganisms
  - (b) Discuss the factors that affect death rate of a microbial control agent.
- 5. What is the basic difference between Algae and Fungi? Name the Algae associated with skin and subcutaneous infections in humans.

Manufulations is the individual who recognizes a particular business concept that has potential to be duplicated. 15. A person who takes over an existing business due to existing good will is hoguetes The entrepreneurs who have their fortunes in property are called seculators refers to an entrepreneur buys companies with problems, but potential for profit. 18. Value Nandescribes an entrepreneur who acquires an asset at a low price, then legal manipulates the financial structure so that it appears to be worth a lot more. 19. An individual who enjoys the fringe benefits of success and looks on business as a means attain the trappings of the "good life" can be considered a life a life enhancement manager refers to an individual who looks on his/her business as a lifetime employment be nurtured and developed at every at every stage from start-up to profitability. 21. Coralomoralis the entrepreneur who obtains control of one company, then uses shares of the company to buy control of their business. 22. An entrepreneur with the capacity to raise large sums of money through investors or otherwise i known as Calital aggregator A male head of a family business is a latrich while the female head refers to a moderate you leap" document. 25. The factors that purely lie outside the control of the business owner but contributes to his failure - - - Climate are known as 26. The factor with a very strong root in Nigeria that leads to entrepreneurial failure is - 27. An association of two or more persons with the common purpose of making a profit through the pursuit of lawful objectives is known as Noticeshit 28. A good entrepreneur is required to work a minimum of \_\_\_\_\_ days in a week and a minimum of \_ hours in a day. 29. The process of ensuring that the product conforms to standard specifications is known as 30. Cadal refers to the readily available fund or resource to maintain normal business operations.

# Comrd. Uzom Solomon

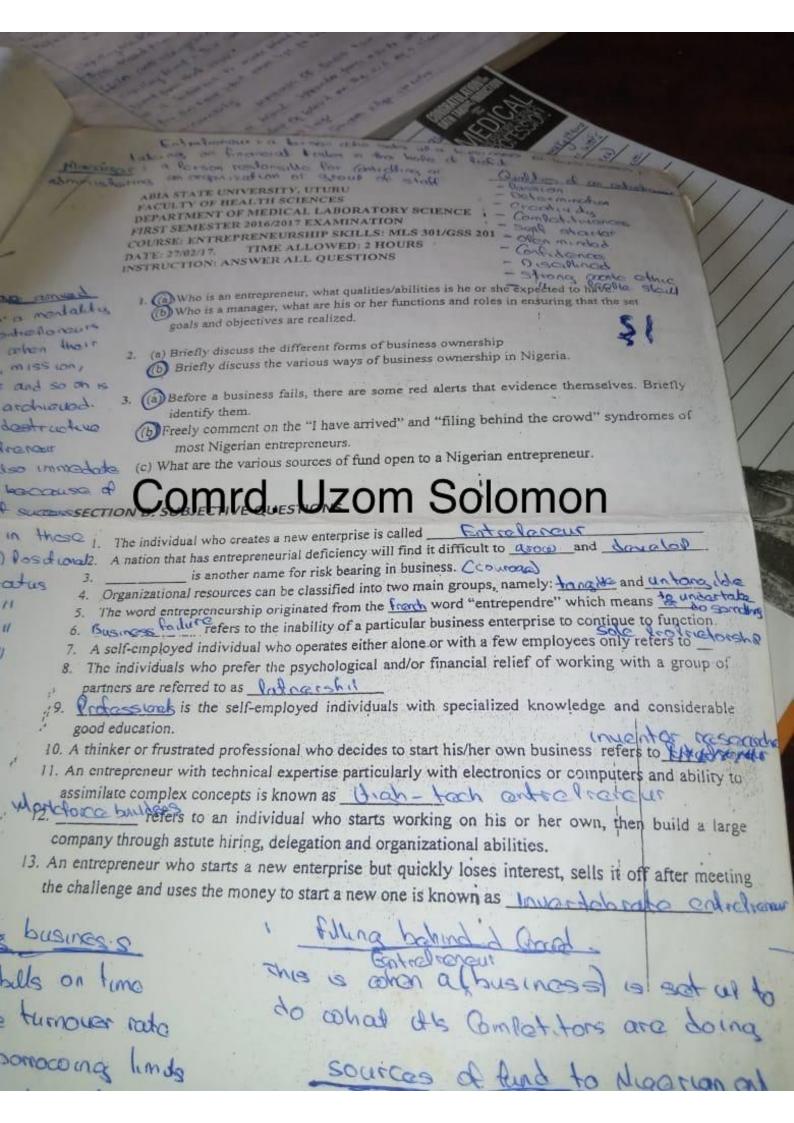


FACULTY OF MEDICAL LABORATORY SCIENCE COLLEGE OF MEDICINE & HEALTH SCIENCES, ABIA STATE UNIVERSITY, UTURU

COURSE TITLE: INSTRUMENTATION IN MEDICAL LABORATORIES COURSE CODE: MLS 331. TIME: 2HRS. 1º Semester 2018/19 INSTRUCTION: ANSWER ALL QUESTIONS

- Q1A. State the principle of Atomic Absorption Spectrophotometry
  - Enumerate tive applications or uses of Nephelometry in clinical laboratory
  - Define shromotography and mention the components of shromotography
  - \*C2. Define microtomy. What are the types of microtome and how will you care for it?
  - C3.A State the principle of coulter counter.
    B Mention the two basic formats of coulter counter principles and briefly describe such.
- Q4. Write whort notes on any two thermostatically controlled instruments used in reicrobiology laboratory.

Comrd. Uzom Solomon



# AND LIZE HEDICAL ABORATORY SCIENCES,

COURSE TITLE: BASIC MLS PROCEDURE: 1x Semester 2016/17

INSTRUCTION: ANSWER ALL QUESTIONS.

O1. DESCRIBE THE PREPARATION OF THIN BLOOD FILM AND DESCIBE IN DETAIL HOW YOU WILL STAIN A THIN FILM USING LEISHMAN STAIN

D2 AJ COLORIMETRY AND SPECTROPHOTOMETRY ARE ANALYTICAL.

TECHNIQUES EMPLOYED IN CLINICAL CHEMISTRY, STATE THE

OPERATING PRINCIPLE AND LAW GUIDING THE TECHNIQUE WITH A

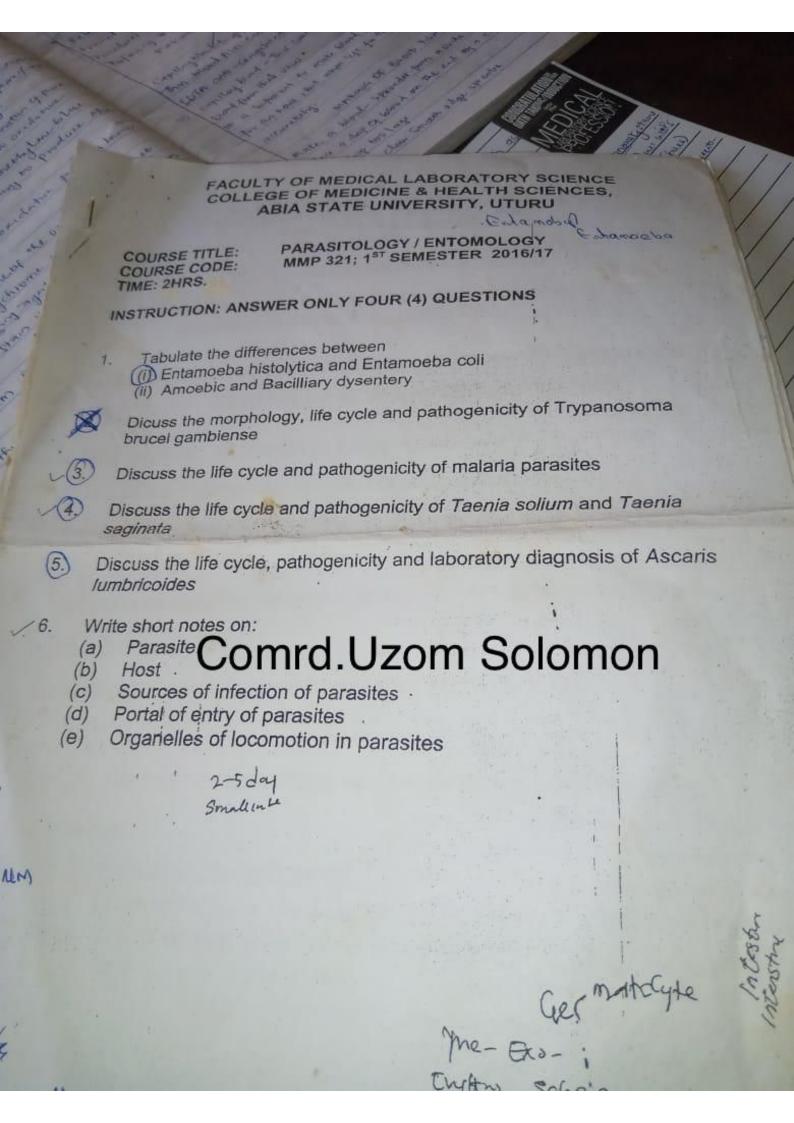
NOTE ON ITS APPLICATION.

BE ANALYSED IN THE CLINICAL CHEMISTRY LABORATORY.

Q3A). STATE THE GRAM STAINING PRINCIPLE AND METHOD?

- B. WRITE SHORT NOTES ON THE FOLLOWING VIZ: I. PIPETTES IN WIRELOOP IIL SWAB STICK.
- C. DISCUSS THE HANGING DROP PREPARATION

04) WRITE A BRILLIANT ESSAY ON DECALCIFICATION.



### FACULTY OF MEDICAL LABORATORY SCIENCE

### COLLEGE OF MEDICINE & HEALTH SCIENCES, ABIA STATE UNIVERSITY,

UTURU.

COURSE TITLE PHARMACOLOGY I

COURSE CODE PHM 311. TIME:1HR.30MINS. FIRST SEMESTER 2017/2018
INTRUCTION ANSWER ALL QUESTIONS.

- 1 a. Out ne five features of substances used as drugs.
- b. Last two major routes of drug administration and outline four disadvantages of each.
- c. Define drug receptor and list two major types of drug receptors.

20 marks

- 2th. What is Pharmacokinetics?
- b. Write short note on the following.
- i) Bioavailability of drugs.
- Half life of drugs. Comrd. Uzom Solomon
- iii) Phase II metabolism of drugs.

15 marks

- 3 a. Explain the term " drug metabolism"
  - Discuss any three consequences of drug metabolism.
  - Explain four different mechanism of drug action.
- b. Dutline any three factors that can affect drug response in man.

20 marks

15 marks

FIRST SENESTER EXAMINATION

COURSE:

NOTTOUTIONS:

DEPARTMENT OF MEDICAL MICROBIOLOGY

COURSE: MMP 311 GENERAL MICROBIOLOGY

INSTRUCTIONS: ANSWER ALL QUESTIONS

In a tabular form distinguish the characteristics of provizion, tungi, algae and what is microbial death? Discuss the factors that affect the death rate of the difference stating their economic importance to man and the difference stating their economic importance to man and the difference stating their economic importance to man and the difference stating their economic importance to man and the difference to make the difference to mak

A Write briefly on the algae stating their economic importance to man

a Explain the phenomenon called or orphism among fungi.

K.PI

are dimorphic lungi.

# COLLEGE OF MEDICINE AND HEALTH SCIENCES, FACULTY OF MEDICAL LABORATORY SCIENCE

# ABIA STATE UNIVERSITY, UTURU.

COURSE TITLE: PHARMACOLOGY 1

COURSE CODE: PHIM 311, TIME: 1 HOUR, 30 MINS. 1" Semester

INSTRUCTIONS: 1. Answer all questions. 2. Phones or electronic gadgets are not allowed into the examination hall.

- metabolism, and (by) mase if metabolism of drugs.
  - Discuss any three mechanisms of strug action.

# THE OF MEDICINE & DEAT IN SCIENCES ABIA STATE UNIVERSITY. UTURU

COURSE TITLE: INSTRUMENTATION IN MEDICAL LABORATORIES INSTRUCTION: ANSWER ALL QUESTIONS COURSE CODE: MLS 331. TIME: 2HRS. 1<sup>st</sup> Somester 2018/19

State the principle of Atomic Absorption Spectrophotometry

- Enumerate five applications or uses of Nephelometry in clinical laboratory
- Uzom Solomon 'Q2. Define microtomy. What are the types of microtome and Define chromotography and mention the components of how will you care for it? chromotography
  - Q3.A State the principle of coulter counter. B Mention the two basic formats of coulter counter principles and briefly describe each
  - Write short notes on any two thermostatically controlled microbiology laboratory

# OPERATING PRINCIPLE AND LAW GUIDING THE TECHNIQUE WITH A

FACULTY OF MEDICAL LABORATORY SCIENCES, COLLEGE OF MEDICINE & HEALTH SCIENCES, ABIA STATE UNIVERSITY.

TIME: 2HRS. 14 Semester 2016/17 COURSE TITLE: BASIC MLS PROCEDURE COURSE CODE: MLS311.

INSTRUCTION: ANSWER ALL QUESTIONS.

OF DESCRIBE THE PREPARATION OF THIN BLOOD FILM AND DESCIBE IN DETAIL HOW YOU WILL STAIN A THIN FILM USING LEISHMAN STAIN

DO DETAIL HOW YOU WILL STAIN A THEN FILM USING LEANALYTICAL

OR ALCOGRAFETRY AND SPECTROPHOTOMETRY ARE ANALYTICAL

TECHNIQUES EMPLOYED IN CLINICAL CHEMISTRY, STATE THE

TECHNIQUES EMPLOYED IN CLINICAL CHEMISTRY, STATE THE

TECHNIQUES EMPLOYED IN CLINICAL CHEMISTRY, STATE THE

OPERATING PRINCIPLE AND LAW GUIDING THE TECHNIQUE WITH

NOTE ON ITS APPLICATION.

B) LIST THE BIOCHEMICAL COMPONENTS OF URINE SAMPLE THAT CAN

BE ANALYSED IN THE CLINICAL CHEMISTRY LABORATORY

WRITE SHORT NOTES ON THE FOLLOWING VIZ. 1. PIPETTES STATE THE GRAM STAINING PRINCIPLE AND METHOD?

DISCUSS THE HANGING DROP PREPARATION WIRELOOP II. SWAB STICK

O4) WRITE A BRILLIANT ESSAY ON DECALCIFICATION

# 2019/2020 SESSION FIRST SEMESTER EXAMINATION FACULTY OF MEDICAL LABORATORY SCIENCE ABIA STATE UNIVERSITY, UTURU

10TH FEBRUARY, 2021

INTRODUCTION TO MLS

MLS 311

2 HOURS

OUESTIONS ANSWER ALL 1. (a) List the materials you need for the proparation of thin film

(b) Describe how you will prepare and stain a thin film with COURSE TITLE:

SOURSE CODE:

OURSE CODE:

INSTRUCTION:

(b) Describe

(c) Describe

(d) Describe

(d) State to

(e) State to

(h) State to

(h

2. (a) Describe Gram Staining principle and m

drop preparation State the hanging

3. Write exhaustively on Fixation

(a) Suconctly explain the application of Beer-I

Clinical Chemistry

(b) Write briefly on the physical examination of urine