



DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY TWO YEARS (FIRST YEAR) EXAMINATION

COMMUNICATIVE ENGLISH AND COMPUTER FUNDAMENTALS

Marks: 100

TIME: 3 Hours

I. SHORT ANSWER QUESTIONS : (10X2 = 20)

- 1) Define Gender?
- 2) What is meant by adverb?
- 3) Define types of sentences?
- 4) Define kinds of Adverbs?
- 5) Define kinds of verbs?
- 6) Define adjectives of number?
- 7) Define kinds of countable Nouns?
- 8) What is meant by weak verbs?
- 9) Key board
- 10) Enter

2. WRITE SHORT NOTES ON: (5X3 = 15)

- 1) Language
- 2) Active form
- 3) Write the usage of Transformation?
- 4) What is Hardware?
- 5) Explain cut, copy and paste?

3. WRITE SHORT NOTES ON: (5X5 = 25)

- 1) Explain 'WH' type question words?
- 2) Define common conjunctions
- 3) Write a letter to the inspector of police about the theft of your bicycle
- 4) Memory
- 5) Explain 'find', 'replace' and 'go to'.

4. ESSAY QUESTIONS: (4X10 = 40)

- 1) Describe MS Windows
- 2) Write the types of Charts in EXCEL.
- 3) Introduction to Pagemaker? Explain
- 4) Describe MS Windows



DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY TWO YEARS (FIRST YEAR) EXAMINATION

CLINICAL BIO CHEMISTRY - I

Marks: 100

TIME: 3 Hours

I. SHORT ANSWER QUESTIONS : (10X2 = 20)

- 1) What are the properties of co-enzymes?
- 2) Wavelength
- 3) Explain Any two (a)Flasks (b)Beakers (c)Funnels (d)Cylinders
- 4) Define - Pipettes .Any two? (a)volumetric pipettes? (b)Graduated pipettes? (c)Blood pipettes? (d) Pasteur Pipettes?
- 5) Components of colorimeter any two?
- 6) Define photoelectric colorimeter light sources?
- 7) Define the Universal Indicators?
- 8) Define - Blood Chemistry?
- 9) Aqueous solutions
- 10) Cholestrol

2. WRITE SHORT NOTES ON: (5X3 = 15)

- 1) What is Hay's Test?
- 2) Define Enzymes
- 3) Fasting serum/plasma glucose
- 4) Flame photometry
- 5) Glucose Test

3. WRITE SHORT NOTES ON: (5X5 = 25)

- 1) Use and care of an Incubator?
- 2) Procedure for water bath.
- 3) Role of medical laboratory and its Integration into the health service.
- 4) Cleaning Methods.
- 5) Optical path in a photoelectric colorimeter and wavelength in nanometer

4. ESSAY QUESTIONS: (4X10 = 40)

- 1) Blood sugar level and its clinical significance.
- 2) Write about solution and its Types
- 3) Test for free and Total acid in G.J.
- 4) Explain Ferricyanide method



DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY TWO YEARS (FIRST YEAR) EXAMINATION

CLINICAL MICRO BIOLOGY - I & PARASITOLOGY

Marks: 100

TIME: 3 Hours

I. SHORT ANSWER QUESTIONS : (10X2 = 20)

- 1) Define Agglutination?
- 2) Define epitope.
- 3) Define Procaryotes & give example.
- 4) Filtration
- 5) Write about Heterotrophic organisms?
- 6) What is pinocytosis?
- 7) Write about spirilla
- 8) Define Actinomycetes
- 9) What is the composition of nutrient agar medium?
- 10) What are the steps involved in preparation of Loeffler serum medium?

2. WRITE SHORT NOTES ON: (5X3 = 15)

- 1) What is mucus?
- 2) Write about yeasts fungi.
- 3) Give example for Intestinal parasites.
- 4) Define Parasitology
- 5) Protozoa

3. WRITE SHORT NOTES ON: (5X5 = 25)

- 1) Loeffler serum slope
- 2) Indole test? Explain .
- 3) Write about Trophozoite
- 4) Types of specimen received in laboratory
- 5) Lab. Diagnosis of intestinal amoebiasis.

4. ESSAY QUESTIONS: (4X10 = 40)

- 1) Detailed notes on Immunoglobulin?
- 2) Explain about Kingdom concept with diagram.
- 3) Explain about nutrient agar medium and inoculation
- 4) Explain in detail about gram staining method.



DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY TWO YEARS (FIRST YEAR) EXAMINATION

HAEMATOLOGY, BLOOD BANKING & HISTOPATHOLOGY - I

Marks: 100

TIME: 3 Hours

I. SHORT ANSWER QUESTIONS : (10X2 = 20)

- 1) Haematology?
- 2) Capillary blood
- 3) What is Antigen and give definition?
- 4) What are the components of Leishman's stain
- 5) What is cytology? Explain
- 6) Write the use of potassium oxalate
- 7) What is the reason for sickle cell Anemia
- 8) Write the principle of ESR test
- 9) Describe Mayer's Egg albumin FIXAFIVE
- 10) What is Anti-D Serum.

2. WRITE SHORT NOTES ON: (5X3 = 15)

- 1) Write any 3 anticoagulants you know and explain.
- 2) Schilling test
- 3) PCV
- 4) Leucocytes
- 5) Prothrombin Time

3. WRITE SHORT NOTES ON: (5X5 = 25)

- 1) Write about the methods of Histopathology processing.
- 2) What is Haemolytic Anaemia explain
- 3) Which are the blood parasites.
- 4) What are the functions of blood.
- 5) Write the calculation of Leucocyte count.

4. ESSAY QUESTIONS: (4X10 = 40)

- 1) Explain the process of biopsy examination.
- 2) Explain E.S.R with neat diagram.
- 3) Explain the organization of a blood bank
- 4) Describe the determination of hemoglobin.



DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY TWO YEARS (FINAL YEAR) EXAMINATION

CLINICAL BIO CHEMISTRY - II

Marks: 100

TIME: 3 Hours

I. SHORT ANSWER QUESTIONS : (10X2 = 20)

- 1) Clinical biochemistry
- 2) Define Enzymes
- 3) PH
- 4) Molecular weight
- 5) Fasting serum/plasma glucose
- 6) Aspartate transaminase
- 7) What is tests to measure renal plasma flow(RPF)
- 8) Difference between the Normal & abnormal constituents of urine?
- 9) Define - "polyuria"?
- 10) Define - "Anuria"?

2. WRITE SHORT NOTES ON: (5X3 = 15)

- 1) Function of the kidney?
- 2) Define - Alkaptonuria?
- 3) Fouchet's test
- 4) VMA
- 5) Rothera's test

3. WRITE SHORT NOTES ON: (5X5 = 25)

- 1) Preparation of patients for GTT
- 2) Blood urea estimation
- 3) Lipid profile
- 4) What is the radioactive uptake studies?
- 5) Types of enzyme?

4. ESSAY QUESTIONS: (4X10 = 40)

- 1) Describe the BCG method of Albumin estimation
- 2) Explain about the methods of serum uric acid
- 3) Estimation of uric acid?
- 4) Define proteinuria. Write in detail about the Laboratory investigations done to diagnose proteinuria.



DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY TWO YEARS (FINAL YEAR) EXAMINATION

CLINICAL MICRO BIOLOGY - II

Marks: 100

TIME: 3 Hours

I. SHORT ANSWER QUESTIONS : (10X2 = 20)

- 1) Methylene blue
- 2) Define Nutrient Agar.
- 3) Define Nutrient Broth.
- 4) Write about the limitations of Antibiotic sensitivity Test.
- 5) Write about Bacillus anthracis
- 6) Write about the size of virus.
- 7) Write about IgM
- 8) Write about IgD
- 9) What is VDRL?
- 10) What is specimen?

2. WRITE SHORT NOTES ON: (5X3 = 15)

- 1) Cocci
- 2) Medical Microbiology
- 3) Negative stain
- 4) KOH mount
- 5) Decolorisation

3. WRITE SHORT NOTES ON: (5X5 = 25)

- 1) Bacteria
- 2) VDRL test
- 3) C- reactive protein test
- 4) Antibiotic sensitivity test
- 5) Explain bile solubility test.

4. ESSAY QUESTIONS: (4X10 = 40)

- 1) Write about the structure & Growth of fungi.
- 2) Write about fungal toxins & Allergy.
- 3) Write about replication of virus.
- 4) Write about Immunoglobulins and its structure.



DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY TWO YEARS (FINAL YEAR) EXAMINATION

HAEMATOLOGY, BLOOD BANKING & HISTOPATHOLOGY - II

Marks: 100

TIME: 3 Hours

I. SHORT ANSWER QUESTIONS : (10X2 = 20)

- 1) Blood transfusion
- 2) Fixatives
- 3) Coagulation time
- 4) Define blood transfusion?
- 5) The reason for Haemophilia in blood.
- 6) Write about Erythropoiesis
- 7) Give full definition for CSF
- 8) What is CML.
- 9) Write the function of liver.
- 10) What is DPX. Explain.

2. WRITE SHORT NOTES ON: (5X3 = 15)

- 1) ABO grouping
- 2) How will you separate the serum
- 3) Histopathology
- 4) ICT
- 5) Fresh Frozen plasma.

3. WRITE SHORT NOTES ON: (5X5 = 25)

- 1) Define the Donor's screening?
- 2) Draw the picture of normal sperm.
- 3) Write short note about Klim's needle.
- 4) How can you maintain musedms specimen.
- 5) Explain the methods of B.T. and C.T

4. ESSAY QUESTIONS: (4X10 = 40)

- 1) Explain histopathology techniques
- 2) Describe blood coagulation factors.
- 3) What is Anaemia and how will you diagnose in a lab?
- 4) Describe about different Blood groups & Explain the methods of detecting Blood groups in a Clinical Laboratory