



**GOVERNMENT OF KERALA
DIRECTORATE OF MEDICAL EDUCATION
DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY REGULAR EXAMINATIONS
MAY 2023**

DMLT- S - I –MAY-2023
Max. marks : 100

Time : 3 hrs.

**PAPER- I
BIOCHEMISTRY**

(Answer Section A & B separately and draw diagrams wherever necessary)

SECTION A

- I. How urea is formed in the body? Write the principles of various methods of urea estimation. Write a detailed estimation procedure of serum urea (5+5+10=20)
- II. Briefly describe urine aminogram (10)
- III. Write short notes on (4x5=20)
- a. RIA
 - b. Urine preservatives
 - c. Expression of concentrations
 - d. Distilled water

SECTION B

- IV. What is true glucose value? Mention different methods of collection of blood samples used for glucose estimation. Describe various methods of plasma sugar estimation. Write one methods in detail. (1+1+8+10=20)
- V. Write short notes on (5x5=25)
- a. Serum uric acid
 - b. Electrophoresis
 - c. Jaundice
 - d. Lipid profile
 - e. Serum electrolytes
- VI. Write the normal values of the following (5x1=5)
- a. Serum Cholesterol
 - b. Plasma bicarbonate
 - c. Serum SGOT
 - d. Serum calcium
 - e. Serum potassium

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**PAPER-II
MICROBIOLOGY AND PARASITOLOGY**
(Answer Section A & B separately and draw diagrams wherever necessary)

SECTION A

- I. Enumerate bacteria causing Enteric fever in man. Describe in detail the laboratory diagnosis of Enteric fever (2+16=18)
- II. Describe briefly (2x6=12)
- a. Antibiotic sensitivity tests
 - b. Laboratory diagnosis of Bacillary dysentery
- III. Write short notes on (5x4=20)
- a. Elek's gel precipitation test
 - b. Hot air oven
 - c. Lowenstein – Jensen medium
 - d. Staphylococcus aureus.
 - e. Negative staining

SECTION B

- IV. Enumerate the intestinal nematodes. Describe in detail the life cycle and laboratory diagnosis of Hook worm. (2+13=15)
- V. Write short notes on (7x5=35)
- a. VDRL test
 - b. Laboratory diagnosis of Hepatitis B infection
 - c. Slide culture for fungi
 - d. IgG
 - e. Life cycle of Wuchereria bancrofti
 - f. Dengue fever
 - g. Candida albicans

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2023

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PAPER-III
PATHOLOGY

(Answer Section A & B separately and draw diagrams wherever necessary)

SECTION A

- I. Mention different methods for Hemoglobin estimation. Describe Cyanmethemoglobin (3+7=10)
- II. **Write briefly on.** (4x5=20)
- a. Romanosky stains
 - b. ESR (Erythrocyte Sedimentation Rate)
 - c. Semen analysis
 - d. Urine preservatives
- III. **Write short notes on** (5x4=20)
- a. Activated partial thromboplastin time (APTT)
 - b. Megakaryocyte
 - c. Myeloperoxidase stain
 - d. Reticulocyte count
 - e. Principles of automated cell counters

SECTION B

- IV. Explain different steps of tissue processing. (10)
- V. Write briefly on (4x5=20)
- a. Coomb's Test
 - b. Fresh Frozen plasma
 - c. Papanicolaou stain
 - d. Frozen sections
- VI. Write short notes on (5x4=20)
- a. Periodic Acid Schiff's stain
 - b. Paraffin Wax additives
 - c. Barr body
 - d. Mordants
 - e. Cross Match

