

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 0222]

**FEBRUARY 2022
(OCTOBER 2021 EXAM SESSION)**

Sub. Code: 1254

**M.Sc. MEDICAL LABORATORY TECHNOLOGY
FIRST YEAR**

(Candidates admitted from 2011-2012 & 2013-2014 onwards - Paper IV)

(Candidates admitted from 2020-2021 onwards - Paper V)

PAPER IV & V – GENERAL PATHOLOGY

Q.P. Code : 281254

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Define Reversible injury. Write a detail note on Necrosis and explain the classification and their morphological changes?
2. Define Neoplasia. Explain the Metastatic Cascade of cancer.

II. Write notes on:

(10 x 6 = 60)

1. Cellular adaptations.
2. Mendelian disorders.
3. Systemic effects of inflammation.
4. Angiogenesis.
5. Overview of Tissue repair.
6. Causes of cell injury.
7. FISH- explain.
8. Causes of Apoptosis.
9. Autophagy.
10. Inflammation.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 0522]

MAY 2022

Sub. Code: 1254

**M.Sc. MEDICAL LABORATORY TECHNOLOGY
FIRST YEAR**

(Candidates admitted from 2011-2012 & 2013-2014 onwards - Paper IV)

(Candidates admitted from 2020-2021 onwards - Paper V)

PAPER IV & V – GENERAL PATHOLOGY

Q.P. Code : 281254

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Define Tissue repair. Discuss the role of extra cellular matrix in tissue repair.
2. Define Edema. Causes of Edema in detail.

II. Write notes on:

(10 x 6 = 60)

1. Write a short note on Shock.
2. Life cycle of HIV.
3. Mechanism of cell injury.
4. Complement system.
5. PCR and its types.
6. Define carcinogens and their types in detail.
7. Coagulation cascade.
8. Cellular events in inflammation.
9. Oncogenes.
10. Hypertrophy and Metaplasia.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 1022]

OCTOBER 2022

Sub. Code: 1254

M.Sc. MEDICAL LABORATORY TECHNOLOGY

FIRST YEAR (Regulation 2011-2012)

(Candidates admitted from 2013-2014 onwards – Paper - IV)

(Candidates admitted from 2020-2021 onwards – Paper - V)

PAPER IV & V – GENERAL PATHOLOGY

Q.P. Code : 281254

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Define Neoplasia. Write the differences between benign and malignant neoplasms and a note on the spread of tumors (Metastasis).
2. Define Shock. Classify shock and write in detail the etiology and pathogenesis of septic shock.

II. Write notes on:

(10 x 6 = 60)

1. Different types of necrosis with examples.
2. Cytokines and their functions.
3. Thrombosis.
4. Fluorescence In Situ Hybridization (FISH).
5. Tumor angiogenesis.
6. Lab diagnosis of Leprosy.
7. Mediators of inflammation.
8. Mendelian disorders.
9. Western blot test.
10. Mechanism of cell injury.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 1023]

OCTOBER 2023

Sub. Code: 1254

**M.Sc. MEDICAL LABORATORY TECHNOLOGY
FIRST YEAR (From 2020-2021 onwards)
PAPER V – GENERAL PATHOLOGY**

Q.P. Code: 281254

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Define Neoplasia. Write in detail about the Molecular basis of cancer.
2. Define Tissue repair. Discuss in detail about the process of wound healing.

II. Write notes on:

(10 x 6 = 60)

1. Intracellular Accumulations.
2. Morphologic patterns of acute and chronic inflammation.
3. Autosomal recessive disorders.
4. Necrosis.
5. Types of infarcts with examples.
6. Functions of growth factors.
7. Lab diagnosis of genetic diseases.
8. Tumor suppressor genes.
9. Pathogenesis of HIV.
10. Polymerase Chain Reaction.
