

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

(DCP 0524)

MAY 2024

Sub. Code: 4004

DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION

**PAPER I – BASIC MEDICAL SCIENCES: GENERAL PATHOLOGY AND
MICROBIOLOGY INCLUDING PARASITOLOGY**

Q.P .Code: 344004

Time: Three Hours

Maximum: 100 Marks

(ANSWER SECTION A & B SEPARATELY)

SECTION - A

(GENERAL PATHOLOGY)

I. Elaborate on:

(1 x 15 = 15)

1. Classify Chemical mediators of Inflammation. Describe in detail the role of arachidonic acid metabolites and cytokines (TNF, IL-1) in inflammation.

II. Write notes on:

(5 x 7 = 35)

1. Role of Free radicals in cell injury.
2. Niemann Pick disease.
3. Diet and cancer.
4. Autoantibodies in SLE.
5. Interferons.

SECTION - B

(MICROBIOLOGY INCLUDING PARASITOLOGY)

I. Elaborate on:

(1 x 15 = 15)

1. Enumerate the organisms causing meningitis. Discuss in detail the laboratory diagnosis of bacterial meningitis with a note on prophylaxis.

II. Write notes on:

(5 x 7 = 35)

1. Pathogenesis, morphology and complications of falciparum malaria.
2. Monoclonal antibodies and their applications.
3. Hospital Waste Management.
4. Pathogenesis and lab diagnosis of Botulism.
5. Opportunistic mycosis.

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

(DCP 1224)

**DECEMBER 2024
(OCTOBER 2024 EXAM SESSION)**

Sub. Code: 4004

DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION

**PAPER I – BASIC MEDICAL SCIENCES: GENERAL PATHOLOGY
AND MICROBIOLOGY INCLUDING PARASITOLOGY**

Q. P. Code: 344004

Time: Three Hours

Maximum: 100 Marks

(ANSWER SECTION A & B SEPARATELY)

**SECTION - A
(GENERAL PATHOLOGY)**

I. Elaborate on: (1 x 15 = 15)

1. A 25-year-old lady presents with rashes over the face, fever and arthralgia.
 - a) What is the probable diagnosis?
 - b) Discuss the pathogenesis and morphology of this condition.
 - c) Describe the laboratory investigations to be done in this body.

II. Write notes on: (5 x 7 = 35)

1. Mechanisms of apoptosis.
2. Aspergillosis.
3. Type III hypersensitivity reactions.
4. Pathology of septic shock.
5. DNA viruses that cause cancer.

**SECTION - B
(MICROBIOLOGY INCLUDING PARASITOLOGY)**

I. Elaborate on: (1 x 15 = 15)

1. Discuss the pathogenesis, laboratory diagnosis and prevention of Pulmonary Tuberculosis.

II. Write notes on: (5 x 7 = 35)

1. Laboratory diagnosis of mycetoma.
2. Opportunistic parasitic infections in Human Immuno Deficiency Virus infection.
3. Methicillin Resistant Staphylococcus Aureus (MRSA).
4. Laboratory diagnosis of malaria.
5. Biomedical Waste Management.

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

(DCP 1025]

OCTOBER 2025

Sub. Code: 4004

DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION

**PAPER I – BASIC MEDICAL SCIENCES: GENERAL PATHOLOGY
AND MICROBIOLOGY INCLUDING PARASITOLOGY**

Q. P. Code: 344004

Time: Three Hours

Maximum: 100 Marks

(ANSWER SECTION A & B SEPARATELY)

**SECTION - A
(GENERAL PATHOLOGY)**

I. Elaborate on: (1 x 15 = 15)

1. Define Thrombosis. Write in detail on the etiopathogenesis of thrombosis and a note on the fate of thrombus and its clinical consequences.

II. Write notes on: (5 x 7 = 35)

1. Type I hypersensitivity reaction.
2. Vitamin A metabolism and deficiency.
3. Small round cell tumors.
4. Chemical carcinogenesis.
5. Immunofluorescence- principle and applications.

**SECTION - B
(MICROBIOLOGY INCLUDING PARASITOLOGY)**

I. Elaborate on: (1 x 15 = 15)

1. Write the different spirochaetes that are pathogenic to human and the diseases caused by them. Discuss the pathogenesis and laboratory diagnosis of syphilis.

II. Write notes on: (5 x 7 = 35)

1. Varicella-zoster virus.
2. Diphtheria toxin.
3. Cysticercosis.
4. Pathogenesis and laboratory diagnosis of leptospirosis.
5. Laboratory diagnosis of Mycetoma.
