

[MDS 0721]

**JULY 2021
(MAY 2021 SESSION)**

Sub. Code: 2528

**M.D.S DEGREE EXAMINATION
(For the Candidates admitted from the Academic Year 2018-2019 onwards)**

PART – II

**BRANCH VI – ORAL AND MAXILLOFACIAL PATHOLOGY AND ORAL
MICROBIOLOGY**

**PAPER II – LABORATORY TECHNIQUES AND DIAGNOSIS AND ORAL
ONCOLOGY**

Q.P. Code: 242528

Time: 3 Hours

Maximum: 100 Marks

I. Essay: **(2 x 25 = 50)**

1. Write in detail the types of Hematoxylin stain and its Histochemistry.
2. Discuss in detail the laboratory diagnosis of Fungal Infections of Oral Cavity.

II. Short Essays: **(5 x 10 = 50)**

1. Oncogenes.
2. Honing and stropping.
3. Antigen retrieval.
4. Immunofluorescence technique.
5. Fixatives.

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

[MDS 1121]

**NOVEMBER 2021
(OCTOBER 2021 SESSION)**

Sub. Code: 2528

**M.D.S DEGREE EXAMINATION
(For the Candidates admitted from the Academic Year 2018-2019 onwards)**

PART – II

**BRANCH VI – ORAL AND MAXILLOFACIAL PATHOLOGY AND ORAL
MICROBIOLOGY**

**PAPER II – LABORATORY TECHNIQUES AND DIAGNOSIS AND ORAL
ONCOLOGY**

Q.P. Code: 242528

Time: 3 Hours

Answer ALL Questions

Maximum: 100 Marks

I. Essay: (2 x 25 = 50)

1. Electron microscope, its types and applications.
2. Laboratory diagnosis of viral.

II. Short Essays: (5 x 10 = 50)

1. Oral exfoliate cytology.
2. Field cancerization.
3. Investigations for multiple myeloma.
4. Grossing.
5. Special stains for mucin.

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[MDS 0622]

**JUNE 2022
(MAY 2022 SESSION)**

Sub. Code: 2528

**M.D.S DEGREE EXAMINATION
(For the Candidates admitted from the Academic Year 2018-2019 onwards)**

**FINAL YEAR
PART – II**

**BRANCH VI – ORAL AND MAXILLOFACIAL PATHOLOGY AND ORAL
MICROBIOLOGY**

**PAPER II – LABORATORY TECHNIQUES AND DIAGNOSIS AND ORAL
ONCOLOGY**

Q.P. Code: 242528

Time: 3 Hours

Answer ALL Questions

Maximum: 100 Marks

I. Essay:

(2 x 25 = 50)

1. Inflammatory markers of Oral Cancer.
2. Write in detail the steps in Tissue Processing. Add a note on the errors and its Implication.

II. Short Essays:

(5 x 10 = 50)

1. Tumor Suppressor Gene.
2. Decalcification Techniques.
3. Types of microtome knives and their characteristics.
4. Vital stains.
5. Salivaomics and its application in diagnosis.

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[MDS 1022]

OCTOBER 2022

Sub. Code: 2528

M.D.S DEGREE EXAMINATION

(For the Candidates admitted from the Academic Year 2018-2019 onwards)

FINAL YEAR

PART – II

**BRANCH VI – ORAL AND MAXILLOFACIAL PATHOLOGY AND
ORAL MICROBIOLOGY**

**PAPER II – LABORATORY TECHNIQUES AND DIAGNOSIS AND
ORAL ONCOLOGY**

Q.P. Code: 242528

Time: 3 Hours

Answer ALL Questions

Maximum: 100 Marks

I. Essay:

(2 x 25 = 50)

1. Laboratory diagnosis of Fungal Infections.
2. Write in detail about Hematoxylin and Eosin stain.

II. Short Essays:

(5 x 10 = 50)

1. Metachromasia.
2. Artifacts in tissue sectioning.
3. Parts of compound microscope.
4. Laboratory diagnosis of Bleeding Disorders.
5. Regressive progressive staining.

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[MDS 0723]

**JULY 2023
(MAY 2023 EXAM SESSION)**

Sub. Code: 2528

**M.D.S. DEGREE EXAMINATION
(For the Candidates admitted from the Academic Year 2018-2019 onwards)**

**PART – II
BRANCH VI – ORAL AND MAXILLOFACIAL PATHOLOGY AND
ORAL MICROBIOLOGY
PAPER II – LABORATORY TECHNIQUES AND DIAGNOSIS AND
ORAL ONCOLOGY**

Q.P. Code: 242528

Time: 3 Hours

Answer ALL Questions

Maximum: 100 Marks

I. Essay:

(2 x 25 = 50)

1. Discuss the diagnostic utility of immunohistochemistry in oral eipithelial hyperplasia, dysplasia and carcinoma.
2. Histochemistry in the diagnosis of connective tissue tumors of oral cavity.

II. Short Essays:

(5 x 10 = 50)

1. Drawbacks of automated cell counter.
2. Diagnostic use of periodic acid-Schiff stain.
3. Incremental lines of hard tissues in ground sections of a tooth.
4. Organic chelating agents.
5. Mountant.

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[MDS 1023]

OCTOBER 2023

Sub. Code: 2528

M.D.S. DEGREE EXAMINATION

(For the Candidates admitted from the Academic Year 2018-2019 onwards)

PART – II

**BRANCH VI – ORAL AND MAXILLOFACIAL PATHOLOGY AND
ORAL MICROBIOLOGY**

**PAPER II – LABORATORY TECHNIQUES AND DIAGNOSIS AND
ORAL ONCOLOGY**

Q.P. Code: 242528

Time: 3 Hours

Answer ALL Questions

Maximum: 100 Marks

I. Essay:

(2 x 25 = 50)

1. Discuss the potential diagnostic use of special AT-rich sequence-binding protein-2 (SATB2) in bone forming Jaw lesions.
2. Polarized microscopy in diagnostic pathology.

II. Short Essays:

(5 x 10 = 50)

1. Radiological methods of age estimation of forensic dentistry.
2. Histological methods to study bone.
3. Modern microtomes.
4. Demonstration of nerve fibers using immunohistochemistry.
5. Fungal stains to demonstrate histoplasma capsulatum.

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

[MDS 1024]

OCTOBER 2024

Sub. Code: 2528

M.D.S. DEGREE EXAMINATION

(For the Candidates admitted from the Academic Year 2018-2019 onwards)

PART – II

**BRANCH VI – ORAL AND MAXILLOFACIAL PATHOLOGY AND
ORAL MICROBIOLOGY**

**PAPER II – LABORATORY TECHNIQUES AND DIAGNOSIS AND
ORAL ONCOLOGY**

Q.P. Code: 242528

Time: 3 Hours

Answer ALL Questions

Maximum: 100 Marks

I. Essay:

(2 x 25 = 50)

1. Use of immunohistochemistry in the differential diagnosis of primary and metastatic bone tumors.
2. Discuss in detail the factors affecting fixation of tissue specimens.

II. Short Essays:

(5 x 10 = 50)

1. Salt-split technique.
2. Artefacts.
3. Demonstrate osteoid using special stains.
4. Fixatives used for electron microscopy.
5. Tissue microarray.

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

[MDS 0525]

MAY 2025

Sub. Code: 2528

M.D.S. DEGREE EXAMINATION

(For the Candidates admitted from the Academic Year 2018-2019 onwards)

PART – II

**BRANCH VI – ORAL AND MAXILLOFACIAL PATHOLOGY AND
ORAL MICROBIOLOGY**

**PAPER II – LABORATORY TECHNIQUES AND DIAGNOSIS AND
ORAL ONCOLOGY**

Q.P. Code: 242528

Time: 3 Hours

Answer ALL Questions

Maximum: 100 Marks

I. Essay:

(2 x 25 = 50)

1. Principles of immune histochemistry.
2. Principle of Microscope.

II. Short Essays:

(5 x 10 = 50)

1. Grossing of histopathology.
2. Stereomicroscope.
3. Images in electron microscope.
4. PCR.
5. Exfoliative cytology.

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

[MDS 1225]

DECEMBER 2025

Sub. Code: 2528

M.D.S. DEGREE EXAMINATION

(Candidates admitted for the Academic Year 2022-2023 only)

FINAL YEAR

PART – II

**BRANCH VI – ORAL AND MAXILLOFACIAL PATHOLOGY AND
ORAL MICROBIOLOGY**

**PAPER II – LABORATORY TECHNIQUES AND DIAGNOSIS AND
ORAL ONCOLOGY**

Q.P. Code: 242528

Time: 3 Hours

Answer ALL Questions

Maximum: 100 Marks

I. Essay:

(2 x 25 = 50)

1. Standardization in immunohistochemistry.
2. Immunocytochemistry in oral lesions.

II. Short Essays:

(5 x 10 = 50)

1. Canada balsam.
2. Mordant.
3. Nuclear stain.
4. Sterilization protocol in tissue processing.
5. Flow cytometry.
