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## MANIPAL ACADEMY OF HIGHER EDUCATION

MDS (ORAL PATHOLOGY & MICROBIOLOGY) DEGREE EXAMINATION – JUNE 2018

SUBJECT: PAPER I – APPLIED BASIC SCIENCES: APPLIED ANATOMY, PHYSIOLOGY (GENERAL AND ORAL), CELL BIOLOGY, GENERAL HISTOLOGY, BIOCHEMISTRY, GENERAL PATHOLOGY, GENERAL AND SYSTEMIC MICROBIOLOGY, VIROLOGY, MYCOLOGY, BASIC IMMUNOLOGY, ORAL BIOLOGY (ORAL AND DENTAL HISTOLOGY) BIostatistics AND RESEARCH METHODOLOGY

Monday, June 04, 2018

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ Answer ALL the questions.

✍ Illustrate your answers with appropriate diagrams, flow charts wherever necessary.

✍ Long Essays:

1. Describe in detail the formation of a molar tooth. Add a note on amelogenesis.

(20 marks)

2. Describe in detail the structure of the submandibular salivary gland.

(20 marks)

3. Write short notes on:

3A. Cell cycle

3B. Immunoglobulins

3C. Chi-square test

3D. Dento-gingival junction

3E. Apoptosis

(7 marks × 5 = 35 marks)



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**MANIPAL ACADEMY OF HIGHER EDUCATION**

**MDS (ORAL PATHOLOGY AND MICROBIOLOGY) DEGREE EXAMINATION – JUNE 2018**

**SUBJECT: PAPER II: ORAL PATHOLOGY, ORAL MICROBIOLOGY & IMMUNOLOGY  
AND FORENSIC ODONTOLOGY**

Tuesday, June 05, 2018

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ **Answer ALL the questions.**

✍ **Illustrate your answers with appropriate diagrams or flow charts wherever appropriate.**

✍ **Long Essays:**

1. Discuss Acquired immune deficiency syndrome.

(20 marks)

2. Discuss the immunology of Dental Caries.

(20 marks)

3. **Write short notes on:**

- 3A. Age estimation using dental hard tissues
- 3B. Histopathological variants of Osteosarcoma
- 3C. Etiopathogenesis of Oral Lichen Planus
- 3D. Calcifying Cystic Odontogenic Tumour
- 3E. Pseudocysts of the oral cavity

(7 marks × 5 = 35 marks)



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## MANIPAL ACADEMY OF HIGHER EDUCATION

MDS (ORAL PATHOLOGY AND MICROBIOLOGY) DEGREE EXAMINATION – JUNE 2018

SUBJECT: PAPER III – LABORATORY TECHNIQUES AND DIAGNOSIS AND ONCOLOGY

Wednesday, June 06, 2018

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ Answer ALL the questions.

✍ Long Essays:

1. Discuss grossing protocol of a Cyst within a resected mandible.

(20 marks)

2. Enumerate the Histological types of Oral Squamous cell carcinoma. Discuss the histological grading systems of Oral Squamous Cell Carcinoma.

(20 marks)

3. Write short notes on:

3A. Immunofluorescence in diagnosis of Vesiculobullous lesions

3B. Principle of staining of Haematoxylin and Eosin

3C. Karyotyping

3D. Eyepiece

3E. Mucoepidermoid carcinoma

(7 marks × 5 = 35 marks)



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**MANIPAL ACADEMY OF HIGHER EDUCATION**

**MDS (ORAL PATHOLOGY AND MICROBIOLOGY) DEGREE EXAMINATION – JUNE 2018**

**SUBJECT: PAPER IV: ESSAY**

Thursday, June 07, 2018

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ **Answer only ONE question.**

✍ **Long Essay:**

1. Autoimmunity and autoimmune disorders.

**OR**

2. Advanced diagnostic techniques in oral pathology.

(75 Marks)

