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## MANIPAL UNIVERSITY

MDS (ORAL PATHOLOGY AND MICROBIOLOGY) DEGREE EXAMINATION – APRIL 2010

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

Monday, April 05, 2010

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ **Answer ALL the questions.**

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

1. Describe the macroscopic and microscopic features of the submandibular salivary gland.  
(20 marks)
  
2. Discuss the healing of oral tissues.  
(20 marks)
  
3. **Write short essays on:**
  - 3A. Neural crest cells.
  - 3B. Cytokeratins.
  - 3C. Hormonal regulation of calcium homeostasis.
  - 3D. Antigens.
  - 3E. Chemical mediators of inflammation.

(7×5 = 35 marks)



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## MANIPAL UNIVERSITY

MDS (ORAL PATHOLOGY AND MICROBIOLOGY) DEGREE EXAMINATION – APRIL 2010

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

Tuesday, April 06, 2010

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ **Answer ALL the questions.**

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

1. Discuss in detail calcifying odontogenic cyst.

(20 marks)

2. Discuss oral candidiasis.

(20 marks)

3. **Write short essays on:**

3A. Etiopathogenesis of oral submucous fibrosis.

3B. Pemphigoid.

3C. Aphthous ulcers.

3D. Oncogenes.

3E. Odontogram.

(7×5 = 35 marks)



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## MANIPAL UNIVERSITY

MDS (ORAL PATHOLOGY AND MICROBIOLOGY) DEGREE EXAMINATION – APRIL 2010

SUBJECT: PAPER III – LABORATORY TECHNIQUES AND DIAGNOSIS AND ONCOLOGY

Wednesday, April 07, 2010

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ **Answer ALL the questions.**

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

1. Discuss the various routine stains used in diagnosis in oral histopathology.

(20 marks)

2. Classify salivary gland neoplasms. Discuss in detail muco-epidermoid carcinoma.

(20 marks)

3. **Write short essays on:**

3A. Pindborg tumour.

3B. Tumours of neural origin.

3C. Principle and applications of fluorescent microscopy.

3D. Microtomy.

3E. Grading of oral squamous cell carcinoma.

(7×5 = 35 marks)



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## MANIPAL UNIVERSITY

MDS (ORAL PATHOLOGY AND MICROBIOLOGY) DEGREE EXAMINATION – APRIL 2010

**SUBJECT: PAPER IV: ESSAY**

Thursday, April 08, 2010

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ **Illustrate your answer with diagrams, flow charts wherever appropriate.**

✍ **Write an Essay on:**

Discuss giant cell lesions

**OR**

Discuss pre-malignant lesions and conditions

