

MANIPAL UNIVERSITY**MDS (ORAL PATHOLOGY AND MICROBIOLOGY) DEGREE EXAMINATION – APRIL 2014****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 07, 2014

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

☞ **Answer ALL the questions.**

☞ **Long Essays.**

1. Describe the vascular and cellular changes in acute Inflammation.

(20 marks)

2. Write on cell degeneration and mechanism of apoptosis.

(20 marks)

3. Write short notes on:

3A. Angiogenesis

3B. Coagulation pathway

3C. Dento gingival junction

3D. Epithelial mesenchymal interaction

3E. Basement membrane

(7×5 = 35 marks)



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MDS (ORAL PATHOLOGY AND MICROBIOLOGY) DEGREE EXAMINATION – APRIL 2014

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

Tuesday, April 08, 2014

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 in detail the various granuloma occurring in the oral cavity. (20 marks)
2. Discuss in detail the various developmental disorder pertaining to enamel & dentin. (20 marks)

3. Write short notes on:

- 3A. Lichen planus
- 3B. Internal & External resorption
- 3C. Dental stains
- 3D. Osteoradionecrosis
- 3E. Bite Marks

(7×5 = 35 marks)



MANIPAL UNIVERSITY**MDS (ORAL PATHOLOGY AND MICROBIOLOGY) DEGREE EXAMINATION – APRIL 2014****SUBJECT: PAPER III – LABORATORY TECHNIQUES AND DIAGNOSIS AND ONCOLOGY**

Wednesday, April 09, 2014

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ **Answer ALL the questions.**

✍ **Long Essays.**

1. Processing of an excised jaw clinically diagnosed as osteosarcoma for histopathological examination.

(20 marks)

2. Discuss on benign salivary gland tumors occurring in the hard palate.

(20 marks)

3. Write short notes on:

3A. Enzyme linked immunosorbent assay

3B. RBC and WBC count

3C. Metachromasia and metachromatic stains

3D. Objectives and eye pieces

3E. Non Hodgkin's Lymphoma

(7×5 = 35 marks)



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MANIPAL UNIVERSITY

MDS (ORAL PATHOLOGY AND MICROBIOLOGY) DEGREE EXAMINATION – APRIL 2014

SUBJECT: PAPER IV: ESSAY

Thursday, April 10, 2014

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ Answer only ONE question.

✍ Long Essay.

Cemento - osseous dysplasia

OR

Potentially malignant state

