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MANIPAL UNIVERSITY

MDS (ORAL PATHOLOGY AND MICROBIOLOGY) DEGREE EXAMINATION – APRIL 2011

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 04, 2011

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 structure of the Oral mucosa.

(20 marks)

2. Discuss the entire process of Amelogenesis with the molecular details.

(20 marks)

3. **Short answers:**

3A. Histology and Ultramicroscopic features of serous and mucous acini.

3B. Bell stage of tooth formation.

3C. Regressive changes of Dentin.

3D. Tumor metastasis.

3E. Formation of the palate.

(7×5 = 35 marks)



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MANIPAL UNIVERSITY

MDS (ORAL PATHOLOGY AND MICROBIOLOGY) DEGREE EXAMINATION – APRIL 2011

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

Tuesday, April 05, 2011

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 lesions of Viral origin that affect the Oral Cavity.

(20 marks)

2. Classify fibrous lesions. Give a detailed account on Fibrous dysplasia including its clinical presentation, radiography and histology.

(20 marks)

3. **Short answers:**

3A. Pathogenesis of periapical cyst.

3B. Anomalies affecting size and number of teeth.

3C. Clinical features and etiology of Pemphigus.

3D. Proteolytic- chelation theory of Dental Caries.

3E. Cellulitis.

(7×5 = 35 marks)



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MANIPAL UNIVERSITY

MDS (ORAL PATHOLOGY AND MICROBIOLOGY) DEGREE EXAMINATION – APRIL 2011

SUBJECT: PAPER III – LABORATORY TECHNIQUES AND DIAGNOSIS AND ONCOLOGY

Wednesday, April 06, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ **Answer ALL the questions.**

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

1. Discuss microtome knives and the procedure of microtomy.

(20 marks)

2. Discuss pathogenesis, clinical features and histopathological aspects of pleomorphic adenoma.

(20 marks)

3. **Short answers:**

3A. Fixatives and Fixation.

3B. The Papanicolaou stain.

3C. Vital Staining.

3D. Pathology of Oral Submucous fibrosis.

3E. Histological types of Ameloblastoma.

(7×5 = 35 marks)



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MDS (ORAL PATHOLOGY AND MICROBIOLOGY) DEGREE EXAMINATION – APRIL 2011

SUBJECT: PAPER IV: ESSAY

Thursday, April 07, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

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

✍ Write an Essay on:

Oral Squamous cell carcinoma

OR

Developmental disorder of the soft tissue of the oral cavity

