

Reg. No.

MANIPAL UNIVERSITY

MDS (ORAL PATHOLOGY AND MICROBIOLOGY) DEGREE EXAMINATION – APRIL 2015

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, April 06, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ Answer ALL the questions.

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

1. Discuss in detail the various types of changes taking place in a cell during reversible cell injury.

(20 marks)

2. Discuss the physiology of mastication and deglutition.

(20 marks)

3. Write short notes on:

3A. Development of mandible

3B. Derivates of the first pharyngeal arch

3C. Blood supply to the tongue

3D. Apoptosis

3E. Chemical mediators of inflammation

(7 marks × 5 = 35 marks)



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MDS (ORAL PATHOLOGY AND MICROBIOLOGY) DEGREE EXAMINATION – APRIL 2015

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

Tuesday, April 07, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ **Answer ALL the questions.**

✍ **Long Essays:**

1. Define virus and describe herpes simplex virus. Write on the oral manifestation in herpetic infection.

(20 marks)

2. Discuss on the environmental causes of enamel hypoplasia.

(20 marks)

3. **Write short notes on:**

3A. Immunoglobulin IgG

3B. Osteo radionecrosis

3C. Bite marks in forensic identity

3D. Dento alveolar abscess

3E. Pathogenesis of OSF

(7 marks × 5 = 35 marks)



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MDS (ORAL PATHOLOGY AND MICROBIOLOGY) DEGREE EXAMINATION – APRIL 2015

SUBJECT: PAPER III – LABORATORY TECHNIQUES AND DIAGNOSIS AND ONCOLOGY

Wednesday, April 08, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ **Answer ALL the questions.**

✍ **Long Essays:**

1. Discuss tissue processing.

(20 marks)

2. Classify premalignant states. Discuss oral submucous fibrosis.

(20 marks)

3. **Write short notes on:**

3A. The vital stain

3B. Methods of fixation

3C. Eye pieces in light microscopy

3D. Mucoepidermoid carcinoma

3E. Sectioning artefacts

(7 marks × 5 = 35 marks)



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MDS (ORAL PATHOLOGY AND MICROBIOLOGY) DEGREE EXAMINATION – APRIL 2015

SUBJECT: PAPER IV: ESSAY

Thursday, April 09, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

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

1. Discuss auto-immune disorders

OR

2. Discuss odontogenic tumours

(75 marks)

