

MANIPAL UNIVERSITY**MDS (ORAL PATHOLOGY & MICROBIOLOGY) DEGREE EXAMINATION – JUNE 2016****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 06, 2016

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 the development of maxilla and mandible with associated developmental anomalies. Add a note on the various genes involved in this process.

(20 marks)

2. Discuss acute inflammation. Add a note on the chemical mediators of inflammation.

(20 marks)

3. **Write short notes on:**

3A. Factors influencing the absorption of calcium and phosphorus

3B. Dentinogenesis with clinical considerations

3C. Apoptosis

3D. Histology of parotid gland

3E. Measures of central tendency

(7 marks × 5 = 35 marks)



MANIPAL UNIVERSITY

MDS (ORAL PATHOLOGY AND MICROBIOLOGY) DEGREE EXAMINATION – JUNE 2016
SUBJECT: PAPER II: ORAL PATHOLOGY, ORAL MICROBIOLOGY & IMMUNOLOGY
AND FORENSIC ODONTOLOGY

Tuesday, June 07, 2016

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 oral manifestations of HIV infection. Add a note on the structure of Human Immunodeficiency Virus.

(20 marks)

2. Discuss the pulpal-periapical pathoses.

(20 marks)

3. **Write short essay on:**

3A. Sjögren's syndrome

3B. Pemphigus vulgaris

3C. Iron-deficiency anaemia

3D. Immunology of dental caries

3E. Bite marks

(7 marks × 5 = 35 marks)



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MANIPAL UNIVERSITY

MDS (ORAL PATHOLOGY AND MICROBIOLOGY) DEGREE EXAMINATION – JUNE 2016
SUBJECT: PAPER III – LABORATORY TECHNIQUES AND DIAGNOSIS AND ONCOLOGY

Wednesday, June 08, 2016

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ **Answer ALL the questions.**

✍ **Long Essays:**

1. Immunofluorescence and its application in vesiculobullous lesions (20 marks)
2. Fixation and fixation artifacts (20 marks)
3. **Write short notes on:**
 - 3A. Diagnostic workup of a spindle cell lesion on the buccal mucosa
 - 3B. Oncogenes
 - 3C. Exfoliative cytology
 - 3D. Stains for microorganisms
 - 3E. Objectives and eyepieces(7 marks × 5 = 35 marks)



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MANIPAL UNIVERSITY

MDS (ORAL PATHOLOGY AND MICROBIOLOGY) DEGREE EXAMINATION – JUNE 2016

SUBJECT: PAPER IV: ESSAY

Thursday, June 09, 2016

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ **Answer only ONE question.**

✍ **Long Essay:**

1. Discuss Verrucopapillary lesions of Oral Cavity.

OR

2. Fibro-osseous lesions of the Jaws

(75 marks)

