

Reg. No.

MANIPAL UNIVERSITY

MDS (ORAL PATHOLOGY & MICROBIOLOGY) DEGREE EXAMINATION – JUNE 2017
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 05, 2017

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 anatomy and histology of the submandibular salivary gland.

(20 marks)

2. Discuss the event of dentinogenesis. Add a description on the age related changes of the hard tissues.

(20 marks)

3. **Short notes:**

3A. Cellular Degeneration

3B. Antigen- Antibody reactions

3C. Taste Perception

3D. Karyotyping

3E. Chi square test

(7 marks × 5 = 35 marks)



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MDS (ORAL PATHOLOGY AND MICROBIOLOGY) DEGREE EXAMINATION – JUNE 2017
SUBJECT: PAPER II: ORAL PATHOLOGY, ORAL MICROBIOLOGY & IMMUNOLOGY
AND FORENSIC ODONTOLOGY

Tuesday, June 06, 2017

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 oral submucous fibrosis. Add a note on the current concepts in its pathogenesis.
(20 marks)
2. Discuss the sequelae of dental caries.
(20 marks)
3. **Write short notes on:**
 - 3A. Aphthous stomatitis
 - 3B. Environmental enamel hypoplasia
 - 3C. Bite Marks
 - 3D. Mucous membrane pemphigoid
 - 3E. Glandular odontogenic cyst

(7 marks × 5 = 35 marks)



MANIPAL UNIVERSITY**MDS (ORAL PATHOLOGY AND MICROBIOLOGY) DEGREE EXAMINATION – JUNE 2017****SUBJECT: PAPER III – LABORATORY TECHNIQUES AND DIAGNOSIS AND ONCOLOGY**

Wednesday, June 07, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ **Answer ALL the questions.**

✍ **Long Essays:**

1. Discuss in detail the principle and applications of fluorescence microscopy.
(20 marks)
2. Discuss in detail the laboratory investigations in a suspected case of HIV infection.
(20 marks)

3. **Write short notes on:**

- 3A. Tumour micro-environment
- 3B. Cytological fixatives
- 3C. Adenoid cystic carcinoma
- 3D. Jaw osteosarcoma
- 3E. Oral melanoma

(7 marks × 5 = 35 marks)



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MDS (ORAL PATHOLOGY AND MICROBIOLOGY) DEGREE EXAMINATION – JUNE 2017

SUBJECT: PAPER IV: ESSAY

Thursday, June 08, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ **Answer only ONE question.**

✍ **Long Essay:**

1. Oral lichen planus.

OR

2. Malignant tumours of salivary glands.

(75 marks)

