

MANIPAL ACADEMY OF HIGHER EDUCATION**MDS (ORAL PATHOLOGY & MICROBIOLOGY) DEGREE EXAMINATION – MAY 2019****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**

Friday, May 03, 2019

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ **Answer ALL the questions.**

✍ **Long Essays:**

1. Describe in detail the regulation of the Cell Cycle. Add a note on apoptosis. (20 marks)

2. Describe in detail the anatomic relation, development and histology of parotid gland. Add a note on the formation of saliva. (20 marks)

3. **Write short notes on:**

3A. Oral microbial flora

3B. Taste buds and pathway of taste sensation

3C. Vascular changes in acute inflammation

3D. Role of epithelial mesenchymal interaction in development of tooth

3E. Dentogingival junction

(7 marks × 5 = 35 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION

MDS (ORAL PATHOLOGY AND MICROBIOLOGY) DEGREE EXAMINATION – MAY 2019
SUBJECT: PAPER II: ORAL PATHOLOGY, ORAL MICROBIOLOGY & IMMUNOLOGY
AND FORENSIC ODONTOLOGY

Saturday, May 04, 2019

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ **Answer ALL the questions.**

✍ **Long Essays:**

1. Classify giant cell lesions and describe the clinical, radiological and histopathological features of central giant cell granuloma. Discuss in detail the differential diagnosis.

(20 marks)

2. Describe the non-neoplastic lesions of the salivary glands.

(20 marks)

3. **Write short notes on:**

3A. Oral candidiasis

3B. Gingival enlargement

3C. Metastatic jaw tumors

3D. Immunology and pathogenesis of Oral Lichen planus

3E. Dental age estimation methods

(7 marks × 5 = 35 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION**MDS (ORAL PATHOLOGY AND MICROBIOLOGY) DEGREE EXAMINATION – MAY 2019****SUBJECT: PAPER III – LABORATORY TECHNIQUES AND DIAGNOSIS AND ONCOLOGY**

Monday, May 06, 2019

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ **Answer ALL the questions.**

✍ **Long Essays:**

1. Discuss on optics' of bright field microscope.

(20 marks)

2. Discuss on Myelogenic tumors of the jaw bones.

(20 marks)

3. **Short answers on each of the following:**

3A. Serological tests in the diagnosis of herpetic infections.

3B. Microtome Knives.

3C. Lab investigations in Anemia.

3D. Direct immunofluorescence in the observation of antibody in Pemphigus.

3E. Mounting medias.

(7 marks × 5 = 35 marks)



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MANIPAL ACADEMY OF HIGHER EDUCATION

MDS (ORAL PATHOLOGY AND MICROBIOLOGY) DEGREE EXAMINATION – MAY 2019

SUBJECT: PAPER IV: ESSAY

Tuesday, May 07, 2019

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ **Answer any ONE question.**

✍ **Long Essay:**

1. Lesions of the Tongue.

OR

2. Vesiculo bullous lesions affecting the oral mucosa.

(75 marks)

