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MANIPAL UNIVERSITY

MDS (ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS) DEGREE EXAMINATION – JUNE 2016

SUBJECT: PAPER I – APPLIED BASIC SCIENCES: APPLIED ANATOMY, PHYSIOLOGY, DENTAL MATERIALS, GENETICS, PATHOLOGY, PHYSICAL ANTHROPOLOGY, APPLIED RESEARCH METHODOLOGY, BIO-STATISTICS AND APPLIED PHARMACOLOGY

Monday, June 06, 2016

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ Answer ALL questions.

✍ Illustrate your answers with diagrams and flowcharts wherever possible.

✍ Long Essays:

1. Discuss the anatomy of the mandible, its development and age changes.

(20 marks)

2. Discuss the role of genetics in orthodontics.

(20 marks)

3. Short notes:

3A. Errors in statistics

3B. Copper Niti wires

3C. Transcription of mRNA (Messenger Ribonucleic acid)

3D. Dental stone

3E. Properties of deflection of orthodontic wires and springs

(7 marks × 5 = 35 marks)



MANIPAL UNIVERSITY**MDS (ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS)
DEGREE EXAMINATION – JUNE 2016**

SUBJECT: PAPER II – ORTHODONTIC HISTORY, CONCEPT OF OCCLUSION AND ESTHETICS, CHILD AND ADULT PSYCHOLOGY, ETIOLOGY AND CLASSIFICATION OF MALOCCLUSION, DENTOFACIAL ANOMALIES, DIAGNOSTIC PROCEDURES AND TREATMENT PLANNING IN ORTHODONTICS, PRACTICE MANAGEMENT IN ORTHODONTICS

Tuesday, June 07, 2016

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ **Answer ALL questions.**

✍ **Illustrate your answers with diagrams and flowcharts wherever possible.**

✍ **Long Essays:**

1. Discuss the concept of Ideal occlusion.

(20 marks)

2. Write in detail about clinical photography.

(20 marks)

3. **Write short notes on:**

3A. Orthodontic triage

3B. Functional analysis and diagnosis

3C. McNamara analysis

3D. Etiology of canine impaction

3E. Canine guided occlusion and group function

(7 marks × 5 = 35 marks)



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MANIPAL UNIVERSITY
MDS (ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS)
DEGREE EXAMINATION – JUNE 2016

SUBJECT: PAPER III – CLINICAL ORTHODONTICS

Wednesday, June 08, 2016

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ **Answer ALL questions.**

✍ **Illustrate your answers with diagrams and flowcharts wherever possible.**

✍ **Long Essays:**

1. Discuss the problem of facial esthetics in relation to orthodontic treatment.

(20 marks)

2. Discuss frictional and non-frictional methods of retraction in PEA.

(20 marks)

3. **Write short notes on:**

3A. Lip bumpers

3B. Dental esthetic index Down's Point A

3C. Xeroradiography

3D. Permanent retention

3E. Biomechanics of incisor intrusion

(7 marks × 5 = 35 marks)



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MANIPAL UNIVERSITY
MDS (ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS)
DEGREE EXAMINATION – JUNE 2016

SUBJECT: PAPER IV: ESSAY

Thursday, June 09, 2016

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ **Draw Diagram wherever necessary.**

✍ **Write an Essay on:**

1. Recent advances in orthodontic bonding systems

OR

2. Management of class III malocclusion

(75 marks)

