

MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

MDS (ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS) DEGREE EXAMINATION – JULY 2006

SUBJECT: PAPER I – APPLIED ANATOMY, PHYSIOLOGY, PATHOLOGY, GENETICS, GROWTH,
DEVELOPMENT AND PHYSICAL ANTHROPOLOGY

Monday, July 03, 2006

Time: 3 hours

Max Marks: 100

✍ Answer ALL questions.

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

1. Discuss the concept of functional matrix as it is understood today.

(30 marks)

2. Discuss the role of calcium and phosphorus metabolism in human growth.

(30 marks)

3. Write short notes on:

3A. Meckel's cartilage.

3B. Mutation.

(40 marks)

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MDS (ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS) DEGREE EXAMINATION – JULY 2006

SUBJECT: PAPER II – CHILD PSYCHOLOGY, ETIOLOGY, CLASSIFICATION, DIAGNOSTIC
PROCEDURE & TREATMENT PLANNING IN ORTHODONTICS

Tuesday, July 04, 2006

Time: 3 hours

Max Marks: 100

✍ **Answer ALL questions.**

✍ **Illustrate your answer with diagrams, flow charts wherever necessary.**

1. Discuss the development of malocclusion at various stages of dentition.

(30 marks)

2. Discuss the different methods of computerized diagnosis in orthodontics.

(30 marks)

3. Write short notes on:

3A. Model analysis.

3B. Impacted canine.

(40 marks)

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MDS (ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS) DEGREE EXAMINATION – JULY 2006

SUBJECT: PAPER III – CLINICAL ORTHODONTICS AND DENTAL MATERIALS

Wednesday, July 05, 2006

Time: 3 hours

Max Marks: 100

✍ **Answer ALL questions**

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

1. Discuss the retraction mechanics in preadjusted edgewise appliance.

(30 marks)

2. Discuss the uses of different types of head gears.

(30 marks)

3. Write short notes on:

3A. Glass ionomer bonding agent.

3B. Elastomerics.

(40 marks)



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MDS (ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS) DEGREE EXAMINATION – JULY 2006

SUBJECT: PAPER IV – ESSAY

Thursday, July 06, 2006

Time: 3 hours

Max Marks: 100

✍ Draw diagrams wherever necessary.

Write an essay on:

Sterilization and recycling in orthodontia.

OR

Problem oriented approach in orthodontia.

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MDS (ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS)

DEGREE EXAMINATION – DECEMBER 2006

SUBJECT: PAPER I – APPLIED ANATOMY, PHYSIOLOGY, PATHOLOGY, GENETICS,
GROWTH, DEVELOPMENT AND PHYSICAL ANTHROPOLOGY

Monday, December 04, 2006

Time: 3 hours

Max Marks: 100

✍ Answer ALL questions.

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

1. Discuss the factors effecting craniofacial malformations during embryogenesis and their clinical significance.

(30 marks)

2. Discuss the role of Buccinator Mechanism and their role in developing normal occlusion.

(30 marks)

3. Write short notes on:

3A. Concept of Attritional occlusion

3B. Mutation.

(40 marks)

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DEGREE EXAMINATION – DECEMBER 2006

SUBJECT: PAPER II – CHILD PSYCHOLOGY, ETIOLOGY, CLASSIFICATION, DIAGNOSTIC
PROCEDURE & TREATMENT PLANNING IN ORTHODONTICS

Tuesday, December 05, 2006

Time: 3 hours

Max Marks: 100

✍ Answer ALL questions.

✍ Illustrate your answer with diagrams, flow charts wherever necessary.

1. Discuss the iatrogenic effects of orthodontic treatment and your plan to prevent them during treatment.

(30 marks)

2. Discuss the treatment plan for patients with vertical maxillary excess.

(30 marks)

3. Write short notes on:

3A. Abnormal swallowing pattern – role in malocclusion.

3B. Co-operation in adolescent patient.

(40 marks)

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MDS (ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS)

DEGREE EXAMINATION – DECEMBER 2006

SUBJECT: PAPER III – CLINICAL ORTHODONTICS AND DENTAL MATERIALS

Wednesday, December 06, 2006

Time: 3 hours

Max Marks: 100

✍ **Answer ALL questions**

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

1. Discuss the various debonding techniques – compare and contrast.

(30 marks)

2. Write about ceramics and orthodontics.

(30 marks)

3. Write short notes on:

3A. Headgears.

3B. Lingual orthodontics.

(40 marks)

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MDS (ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS)
DEGREE EXAMINATION – DECEMBER 2006

SUBJECT: PAPER IV – ESSAY

Thursday, December 07, 2006

Time: 3 hours

Max Marks: 100

✍ **Draw diagrams wherever necessary.**

Write an essay on:

Digital photography in Orthodontics.

OR

Current controversies in Orthodontics.

