

MANIPAL UNIVERSITY**MDS (ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS)
DEGREE EXAMINATION – APRIL 2012**

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

Monday, April 09, 2012

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ **Answer ALL questions.**

✍ **Illustrate your answers with diagrams, flowcharts wherever necessary.**

1. Discuss the causative agent of AIDS. Add a note on its transmission in orthodontic practice and prevention.

(20 marks)

2. Discuss the role of mandibular growth in relation to the facial proportion.

(20 marks)

3. Short notes:

3A. Microscopic appearance of Enamel.

3B. Genetically controlled malocclusion.

3C. Gradient of growth.

3D. Hyalinization.

3E. Light Cure orthodontic adhesives.

(7×5 = 35 marks)



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

Tuesday, April 10, 2012

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ Answer ALL questions.

✍ Illustrate your answers with diagrams, flowcharts wherever appropriate.

1. Discuss epigenetic factors effecting malocclusion.

(20 marks)

2. Write note on “Practice management in orthodontics”.

(20 marks)

3. Short notes:

3A. Head posture and oral breathing.

3B. Canine guided occlusion.

3C. Primary failure of eruption.

3D. Lasers in orthodontics.

3E. Goslon Yardstick.

(7×5 = 35 marks)



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SUBJECT: PAPER III – CLINICAL ORTHODONTICS

Wednesday, April 11, 2012

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ **Answer ALL questions.**

✍ **Illustrate your answers with diagrams and flow charts wherever possible.**

1. Discuss early intervention treatment in orthodontics.

(20 marks)

2. Write in detail about tweed and tweed Merrifield technique.

(20 marks)

3. **Write short notes on:**

3A. Interceptive orthodontics.

3B. Early treatment of crossbites.

3C. Removable appliance.

3D. Reverse headgear.

3E. Arch lengthening and expansion.

(7×5 = 35 marks)



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SUBJECT: PAPER IV: ESSAY

Thursday, April 12, 2012

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ **Draw diagram wherever necessary.**

✍ **Write an essay on.**

Surgical orthodontics and soft tissue changes associated with orthognathic surgery.

OR

Contemporary Biomechanics used in clinical orthodontics.

