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## MANIPAL ACADEMY OF HIGHER EDUCATION

MDS PART - II (ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS) DEGREE EXAMINATION – MAY 2022

**SUBJECT: PAPER I – ORTHODONTIC HISTORY, CONCEPTS 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**

Monday, May 02, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer all the questions.

✍ Draw diagrams and flowchart where necessary.

✍ Long essay:

1. Explain in detail the diagnostic factors affecting extraction decision and add a note on indications for which teeth to extract?

(25 marks)

2. Classify cephalometric landmarks. Write in detail on Holdaway analysis.

(25 marks)

3. Write short notes on:

3A. Internal derangement of TMJ.

3B. Role of endocrine disorders in malocclusion.

3C. Transmigration of canine.

3D. Applications of video imaging in orthodontics.

3E. Ethical principles in orthodontic practice.

(10 marks × 5 = 50 marks)



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# MANIPAL ACADEMY OF HIGHER EDUCATION

MDS PART - II (ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS) DEGREE EXAMINATION – MAY 2022

SUBJECT: PAPER II – CLINICAL ORTHODONTICS

Wednesday, May 04, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

✍ Long Essays:

1. Write in detail on extraction space closure mechanics in orthodontics. (25 marks)
2. Write in detail on the pathophysiology, diagnosis and management of white spot lesions. (25 marks)
3. Write short essay on:
  - 3A. Gingival recession and orthodontic treatment.
  - 3B. Cantilevers in orthodontics.
  - 3C. Muscle response to myofunctional therapy.
  - 3D. Stability of orthognathic surgery.
  - 3E. Surgical techniques to accelerate tooth movement.(10 marks × 5 = 50 marks)



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## MANIPAL ACADEMY OF HIGHER EDUCATION

MDS PART - II (ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS) DEGREE EXAMINATION – MAY 2022

SUBJECT: PAPER III – DESCRIPTIVE AND ANALYSING TYPE QUESTION

Friday, May 06, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ANY TWO questions.

1. Controversies in Orthodontics.
2. Esthetics in Adult Orthodontics.
3. Biology of Tooth Movement.

(50 marks × 2 = 100 marks)

