

Reg. No.

MANIPAL ACADEMY OF HIGHER EDUCATION
MDS (ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS)
DEGREE EXAMINATION – JUNE/JULY 2020

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 29, 2020

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ Answer ALL questions.

✍ Illustrate your answers with diagrams and flowcharts wherever necessary.

✍ Essays:

1. Describe and discuss the role of normal and abnormal respiration on the growth of the craniofacial complex.

(20 marks)

2. Discuss the various methods of studying growth.

(20 marks)

3. Short notes:

3A. Home box genes

3B. Cybernetic theory of growth

3C. Van Der Klaw concept

3D. Role of musculature in development

3E. Cleft lip and palate

(7 marks × 5 = 35 marks)



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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 30, 2020

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

- ☞ Answer ALL questions.
☞ Illustrate your answers with diagrams and flowcharts wherever appropriate.

1. Discuss the importance of growth prediction in orthodontic treatment planning. (20 marks)
2. Discuss the Psychology of abnormal oral habits. (20 marks)
3. Short notes:
 - 3A. CBCT in assessment of impactions
 - 3B. ICON
 - 3C. Equilibrium theory & development of dental occlusion
 - 3D. Camouflage treatment
 - 3E. Mc Namra analysis

(7 marks × 5 = 35 marks)



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DEGREE EXAMINATION – JUNE/JULE 2020
SUBJECT: PAPER III – CLINICAL ORTHODONTICS

Thursday, July 02, 2020

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ Answer ALL questions.

✍ Illustrate your answers with diagrams and flowcharts wherever possible.

✍ Long Essays:

1. Fixed functional appliances.

(20 marks)

2. Management of patients with posterior cross bite.

(20 marks)

3. Write Short notes on:

3A. Active versus passive self ligating brackets

3B. Torquing arches

3C. Critical evaluation of pre-adjusted edgewise appliance

3D. Assessment of treatment outcome

3E. Cephalometric superimpositions

(7 marks × 5 = 35 marks)



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DEGREE EXAMINATION – JUNE/JULY 2020

SUBJECT: PAPER IV: ESSAY

Friday, July 03, 2020

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ Answer ANY ONE of the following.

✍ Draw Diagram wherever necessary.

✍ Write an Essay on:

1. Role of orthodontist in craniofacial team.

OR

2. Iatrogenesis and Orthodontics.

