

M-349

**M. D. S. EXAMINATION (Supplementary), 2008
ORTHODONTICS**

Paper-I

**Subject - Applied Anatomy, Physiology, Pathology,
Applied Genetics, Dental Materials & Genetics
Growth and developments**

Time : Three Hours

LONG ESSAYS -

1. Describe growth and development of the maxillae and it's clinical implications.
2. Discuss the selection and properties of orthodontic wires used in fixed appliances.

SHORT ESSAYS -

- (A) Discuss calcium metabolism.
- (B) Role of genetics in orthodontics.
- (C) Describe the Anatomy of MUSCLES of Mastication.
- (D) Enumerate commonly used drugs in orthodontics with their mechanism of action and side effects.
- (E) Concept of normal occlusion.
- (F) Role of fluorides in orthodontics.

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M. D. S. EXAMINATION (Supplementary), 2008
ORTHODONTICS
Paper-II
Subject - Diagnosis & Treatment Planning

Time : Three Hours

LONG ESSAYS -

1. Discuss the etiological factors responsible for development of skeletal malocclusion.
2. Discuss methods of localization and treatment planning for impacted Maxillary Canine.

SHORT ESSAYS -

- (A) Safety valve mechanism.
- (B) Criteria for selection of particular technique in orthodontic patient.
- (C) Diagnostic Smile Analysis.
- (D) Management of orthodontic waste.
- (E) Criteria for orthognathic surgery versus camoflauge orthodontic treatment in skeletal dysplasia cases.
- (F) One Phase versus two Phase therapy.

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M. D. S. EXAMINATION (Supplementary), 2008
ORTHODONTICS
Paper-III
Subject - Mechanotherapy

Time : Three Hours

Note - Answer all questions. Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary.

1. Discuss the protocol and responsibilities of an orthodontist in treatment of skeletal problems with orthognathic surgery. 20
2. Discuss torque control in various appliance systems. 20
3. Write notes on-
 - (a) Square arch wires 10
 - (b) Invisalign and Clear Aligners 10
 - (c) Sleep disorders and oral appliances 10
 - (d) Reduction of Gingival Display 10
 - (e) Gurin lock 10
 - (f) Air rotor stripping 10

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M. D. S. EXAMINATION (Supplementary), 2008
ORTHODONTICS
Paper-IV
Subject - Essay

Time : Three Hours

Write an essay on-

The role of the orthodontist in the care of a Cleft Lip and
Palate individual.

OR

Lingual Orthodontics.

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M. D. S. Examination, 2008
ORTHODONTICS
Paper-I

**Sub : Applied Anatomy, Physiology, Pathology, Applied Genetics,
Dental Material & Genetics Growth and Development**

Time : 3 Hours]

[M. M. :

Note : Attempt all questions. Your answers should be specific to the questions asked. Draw neat labelled diagrams wherever necessary.

1. Discuss physiology of swallowing and it's aberrations. 20
2. Discuss how is form & function related to each other in relation to growth of nasomaxillary complex and specific role of nasal septum. 20
3. Short essays:- 10 x 6 = 60
 - (A) Ligaments of TMJ
 - (B) Dental Cements used in Orthodontics
 - (C) Hormones from Anterior Pituitary Glands and their effects on face and jaws.
 - (D) Servosystem Theory of Growth
 - (E) "t" Test
 - (F) Heat Activated Ni-Ti Wires.

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ORTHODONTICS

Paper-II

Sub : Diagnosis and Treatment Planning

[M. M. : _____]

Time : 3 Hours]

Note : Your answers should be specific to the questions asked. Draw neat labelled diagrams wherever necessary. Answer all questions.

1. Discuss RICKETTS CONTRIBUTION TO ORTHODONTICS (4 step analysis) and explain the term golden/divine proportions.
2. Discuss various methods of growth predictions and its importance in treatment planning.
3. Write short notes on:-
 - (a) Role of Puberty in Orthodontics
 - (b) Functional Analysis
 - (c) Implants as Anchorage
 - (d) Heredity as Etiology in Malocclusion
 - (e) Methods of Cephalometric Superimposition
 - (f) Quadrilateral Analysis.

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ORTHODONTICS

Paper-III

Sub: Mechanotherapy

Time : 3 Hours]

[M. M. :

Note : Answer all questions. Your answers should be specific to the questions asked. Draw neat labelled diagrams wherever necessary.

Long Essays

1. Which of the pre-adjusted appliance(s) is of your choice and why?
2. Treatment philosophy and mechano-therapy of bimaxillary cases.

Short Essays on:

3. Indications, timings and advantages of Secondary Alveolar Bone Graft (SABG)
4. Pre-surgical orthodontics for skeletal Class II malocclusion
5. Protocol and timing of Rapid Maxillary Expansion (RME)
6. Uses of Cone Beam CT (CBCT) in orthodontics
7. Anchorage preparation
8. Frankel III (FR III) appliance: Indication, timing and treatment philosophy

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M. D. S. Examination, 2008

ORTHODONTICS

Paper-IV

Sub : Essay

Time : 3 Hours]

[M. M.

Note : You may draw labeled diagrams wherever necessary.

1. Write an essay on:-
Roll of growth modulation in orthodontic.

Or

2. Torqueassessment, its delivery and biomechanics employed
appliance systems.