

[LB 669]

AUGUST 2012

Sub. Code: 4181

**FOURTH YEAR B.D.S. DEGREE EXAM
PAPER III – ORTHODONTICS AND
DENTOFACIAL ORTHOPAEDICS**

Q.P.Code: 544181

Time: 180 Minutes

Maximum: 100 Marks

Answer ALL questions in the same order

I. Elaborate on:

**Pages Time Marks
(Max.)(Max.)(Max.)**

- | | | | |
|--|----|----|----|
| 1. Mention about the essential diagnostic aids and write about the role orthodontic study models to aid in treatment planning? | 19 | 30 | 20 |
| 2. Define anchorage? Classify anchorage and discuss in detail about the different types of anchorage. | 19 | 30 | 20 |

II. Write notes on:

- | | | | |
|--|---|----|---|
| 1. Cephalic index. | 3 | 10 | 5 |
| 2. Methods of gaining space. | 3 | 10 | 5 |
| 3. Role of Adenoids in malocclusion. | 3 | 10 | 5 |
| 4. Ugly ducking stage. | 3 | 10 | 5 |
| 5. Drift Vs Displacement. | 3 | 10 | 5 |
| 6. Mode of action of Activator. | 3 | 10 | 5 |
| 7. Twin Study. | 3 | 10 | 5 |
| 8. Sicher's theory. | 3 | 10 | 5 |
| 9. Different types of springs and their uses. | 3 | 10 | 5 |
| 10. Definition, indication and contraindications of fixed appliance. | 3 | 10 | 5 |
| 11. Normal and abnormal function of stomatognathic system. | 3 | 10 | 5 |
| 12. Nickel titanium wires. | 3 | 10 | 5 |

[LC 669]

FEBRUARY 2013

Sub. Code: 4181

**FOURTH YEAR B.D.S. DEGREE EXAM
PAPER III – ORTHODONTICS AND
DENTOFACIAL ORTHOPAEDICS**

Q.P.Code: 544181

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on:

(2x10=20)

1. Define Growth and explain Functional matrix theory in detail.
2. What are Removal orthodontic appliances? Explain in detail the various parts of it and add a note on Adam's clasp.

II. Write notes on:

(10x5=50)

1. Growth spurt.
2. Ackermann-Profitt classification.
3. Space gaining method.
4. 18/8 Stainless steel.
5. Prenatal ethiology of malocclusion.
6. Poorman's Cephalometry.
7. Crossbite correction.
8. Speech sounds.
9. Flux and Antiflux.
10. Genetics in Orthodontics.

[LD 669]

AUGUST 2013

Sub. Code: 4181

FOURTH YEAR B.D.S. DEGREE EXAM
PAPER III – ORTHODONTICS AND DENTOFACIAL
ORTHOPAEDICS
Q.P.Code: 544181

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on:

(2x10=20)

1. Enumerate the various Theories of Growth. Discuss in detail the post natal growth of Mandible.
2. Classify and enumerate the various Diagnostic Aids in Orthodontics. Explain in detail about Carey's Analysis.

II. Write notes on:

(10x5=50)

1. Reciprocal Anchorage
2. Oral Screen
3. Overjet, Overbite.
4. Hawley Retainer.
5. Growth spurts
6. Welding in Orthodontics
7. Factors affecting Growth
8. Curve of Spee
9. Tweed Triangle
10. Ideal Occlusion.

[LE 669]

FEBRUARY 2014

Sub. Code:4181

**FOURTH YEAR B.D.S. DEGREE EXAM
PAPER III - ORTHODONTICS AND
DENTOFACIAL ORTHOPAEDICS
*Q.P Code: 544181***

Time: 180 Minutes

Maximum: 70 marks

I. Elaborate on:

(2X10=20)

1. Tissue response to orthodontic force application.
2. Define cephalometrics. Describe the cephalostat and write in detail about Steiner's analysis.

II. Write Notes on:

(10X5=50)

1. Direct ossification
2. Bionator
3. Adams clasp
4. Spacing in deciduous dentition
5. Stress trajectories
6. Merits and demerits of Angel's classification
7. Bolton's ratio
8. Headgears
9. Functional examination in orthodontics
10. Fixed retainers

FOURTH YEAR B.D.S. DEGREE EXAM

**PAPER III - ORTHODONTICS AND
DENTOFACIAL ORTHOPAEDICS**

Q.P Code: 544181

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on:

(2 x 10 = 20)

1. Define retention and relapse. What are the causes for relapse and methods to prevent relapse?
2. Write about the etiology, clinical features, diagnosis and management of class II division 1 malocclusion in a growing child.

II. Write Notes on:

(10 x 5 = 50)

1. Safety valve mechanism.
2. Functional matrix.
3. Resorption patterns following orthodontic force application.
4. Nitinol wires.
5. Incisal liability.
6. Chin cup.
7. Dewel's technique.
8. Oral screen.
9. Compensating curves.
10. Extra oral examination.

FOURTH YEAR B.D.S. DEGREE EXAMINATION

PAPER III – ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

Q.P. Code: 544181

Time : Three Hours

Maximum : 70 marks

Answer All Questions

Draw suitable Diagrams wherever necessary

I. Elaborate on:

(2 x 10 = 20)

1. What is a “Cephalostat”?

Write 4 difference between a lateral view skull radiograph and a cephalogram.

Write about the need for a cephalometric analysis.

Write about any 4 cephalometric parameters and their clinical inference.

2. Define a “Growth Spurt”.

Write the types of growth spurts and significance of each spurt.

List the different methods of assessing skeletal growth status and describe any one method.

II. Write notes on :

(10 x 5 = 50)

1. Adam’s Clasp.

2. Classify upper expansion appliances and write the difference between Slow and Rapid Maxillary Expansion Appliances. Explain about any one expansion appliance.

3. Head Gears.

4. Types of orthodontic tooth movement.

5. Arch perimeter analysis.

6. Correction of Anterior Open Bites.

7. Methods of gaining space.

8. Reinforced anchorage.

9. Classification of Cleft palate and Lip.

10. What is Retention? Write briefly theorems involved.

FOURTH YEAR B.D.S. DEGREE EXAMINATION

PAPER III – ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

Q.P. Code : 544181

Time : Three Hours

Maximum : 70 Marks

Answer All Questions

I. Elaborate on:

(2 x 10 = 20)

1. What is an Ideal Orthodontic Force? Name the types of orthodontic forces.
Name the theories of tooth movement. Write the histological changes in periodontium following application of different magnitudes of orthodontic forces.
2. An eight year old boy was diagnosed to be having a Skeletal Class II discrepancy with Angle's Dentoalveolar CI II division 1 subdivision Malocclusion. Describe the extra oral clinical features, probable intra oral clinical features. Write the various skeletal combinations and cephalometric findings contributing to such a skeletal discrepancy. Write the treatment for each of such skeletal situation.

II. Write Notes on:

(10 x 5 = 50)

1. Infantile swallowing.
2. Reciprocal Anchorage.
3. Positioning of an orthodontic patient in dental chair for clinical examination of facial features and its Importance.
4. Systemic diseases that cause Malocclusion.
5. Mixed dentition analysis.
6. Correction of Anterior cross bite.
7. Reverse Pull Head Gear.
8. Any three local etiological factors for malocclusion.
9. Treatment principle for functional appliances.
10. Cephalocaudal growth gradient.

FOURTH YEAR B.D.S. DEGREE EXAM
(Common to Final Year Paper I - Modified Regulation III Candidates and
Final Year Paper III - New Modified Regulation Candidates)

**PAPER III – ORTHODONTICS AND
DENTOFACIAL ORTHOPAEDICS**

Q.P Code: 544218

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on:

(2 x 10 = 20)

1. What are Myo- functional Appliances? Classify them. On what principles do Myo- functional Appliances work? Describe in details about indications, design and working principle of any one functional Appliance.
2. Define Orthodontic Anchorage, List the anatomical structures that are used a source of Anchorage. Describe with suitable clinical examples, any one extra oral anchorage and any two intra oral anchorage.

II. Write Notes on:

(10 x 5 = 50)

1. High attachment of upper Labial frenum.
2. Classify orthodontic springs and write about “Guided springs”.
3. Cleft lip and Palate.
4. Twin block Appliance.
5. Facial and cephalometric features of skeletal Class III discrepancy.
6. Tongue thrusting habit.
7. What is an Ideal orthodontic force? Write the effects of optimal and higher force levels.
8. Upper Hawley’s Appliance.
9. Skeletal and Dental Deep bites.
10. Intramembranous and Endochondral ossification.

FOURTH YEAR B.D.S. DEGREE EXAM
(Common to Final Year Paper I - Modified Regulation III Candidates and
Final Year Paper III - New Modified Regulation Candidates)

**PAPER III – ORTHODONTICS AND
DENTOFACIAL ORTHOPAEDICS**

Q.P Code: 544218

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on: (2 x 10 = 20)

1. Define occlusion and discuss the development of occlusion from birth till the eruption of permanent second molar.
2. What are functional appliances? Explain the mechanism of action of functional appliances and write in detail about Functional Regulator 1b.

II. Write Notes on: (10 x 5 = 50)

1. Goals of orthodontics.
2. Endochondral ossification.
3. Methods to correct posterior cross bite.
4. Simon's classification of malocclusion.
5. Importance and uses of study models.
6. Reverse pull headgears.
7. Removable retainers.
8. ANB angle.
9. Canine retractors.
10. Active space maintainer.

FOURTH YEAR B.D.S. DEGREE EXAM
(Common to Final Year Paper I - Modified Regulation III Candidates and
Final Year Paper III - New Modified Regulation Candidates)

**PAPER III – ORTHODONTICS AND
DENTOFACIAL ORTHOPAEDICS**

Q.P Code: 544218

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on: **(2 x 10 = 20)**

1. Explain in detail about Angle's Classification of Malocclusion along with its merits and demerits.
2. Discuss in detail about Adams Clasp, design and construction and its various modifications in Orthodontics.

II. Write Notes on: **(10 x 5 = 50)**

1. Clinical importance of Growth Spurts.
2. Optimum Orthodontic Force.
3. Anterior Bite plane.
4. Reciprocal Anchorage.
5. Alginate.
6. Lip Bumper.
7. Austenitic Stainless Steel.
8. Open Bite.
9. Supracrestal Fibrotomy.
10. Finger Spring.

FOURTH YEAR B.D.S. DEGREE EXAM
(Common to Final Year Paper I - Modified Regulation III Candidates and
Final Year Paper III - New Modified Regulation Candidates)

**PAPER III – ORTHODONTICS AND
DENTOFACIAL ORTHOPAEDICS**

Q.P Code: 544218

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on: **(2 x 10 = 20)**

1. Define habits and discuss in detail tongue thrusting habit, giving a note on etiology, classification and management.
2. Define Malocclusion and write about Angle's classification and how will you differentiate between true class III and Pseudo class III?

II. Write Notes on: **(10 x 5 = 50)**

1. Pericision.
2. Indications of serial extraction.
3. Lip Bumper.
4. Cervical pull headgear.
5. Causes of canine impaction.
6. Etiology of cleft palate.
7. Causes of relapse.
8. Undermining Resorption.
9. Bakers anchorage.
10. Study models.

FOURTH YEAR B.D.S. DEGREE EXAM
(Common to Final Year Paper I - Modified Regulation III Candidates and
Final Year Paper III - New Modified Regulation Candidates)

**PAPER III – ORTHODONTICS AND
DENTOFACIAL ORTHOPAEDICS**

Q.P Code: 544218

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on: **(2 x 10 = 20)**

1. Classify essential diagnostic aids. Explain the importance, preparation and uses of study models.
2. Explain the different methods of gaining space in orthodontic treatment.

II. Write Notes on: **(10 x 5 = 50)**

1. Soldering.
2. Oral screens.
3. Labial bows.
4. Twin block.
5. Mandibular prognathism.
6. Causes of relapse.
7. Tweed's Cephalometric analysis.
8. Software applications in orthodontics.
9. Growth spurts.
10. Trajectories of forces.

[LO 669]

FEBRUARY 2019

Sub. Code: 4218

FOURTH YEAR B.D.S. DEGREE EXAM
(Common to Final Year Paper I - Modified Regulation III Candidates and
Final Year Paper III - New Modified Regulation Candidates)

**PAPER III – ORTHODONTICS AND
DENTOFACIAL ORTHOPAEDICS**

Q.P Code: 544218

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on: (2 x 10 = 20)

1. Define growth? Enumerate the different theories of growth and explain in detail on function matrix theory.
2. Define preventive orthodontics. Explain the different procedures undertaken in preventive orthodontics.

II. Write Notes on: (10 x 5 = 50)

1. Moyers mixed dentition analysis.
2. Muscle Exercise.
3. Midline diastema.
4. Components of removable appliance.
5. Rapid maxillary expansion.
6. Chin cup.
7. Bionator.
8. Microimplants.
9. Anterior open bite.
10. Activator

FOURTH YEAR B.D.S. DEGREE EXAM
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Final Year Paper III - New Modified Regulation Candidates)

**PAPER III – ORTHODONTICS AND
DENTOFACIAL ORTHOPAEDICS**

Q.P. Code: 544218

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on:

(2 x 10 = 20)

1. Define cephalostat. Explain in detail the importance of hand wrist radiographs in orthodontics.
2. Write in detail about development of dentition. Tabulate the chronology of eruption of permanent and deciduous dentition.

II. Write Notes on:

(10 x 5 = 50)

1. Reverse pull headgear.
2. Austenitic stainless steel.
3. Accelerated orthodontics.
4. Retention appliances.
5. Down's Cephalometric analysis.
6. Deep bite.
7. Inclined planes.
8. Genetic disorders.
9. Ugly duckling stage.
10. Principles of surgical orthodontics.

FOURTH YEAR B.D.S. DEGREE EXAM
(Common to Final Year Paper I - Modified Regulation III Candidates and
Final Year Paper III - New Modified Regulation Candidates)

**PAPER III – ORTHODONTICS AND
DENTOFACIAL ORTHOPAEDICS**

Q.P. Code: 544218

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on:

(2 x 10 = 20)

1. Define retention, enumerate various theories of retention.
2. Define Anchorage, classify and write in detail about Extra Oral Anchorage.

II. Write Notes on:

(10 x 5 = 50)

1. Cartilaginous theory.
2. Flux and Anti flux.
3. Methods of studying growth.
4. Canine impaction.
5. Hyrax.
6. Types of tooth movement.
7. Adult orthodontics.
8. Pseudo class III.
9. Tweeds Diagnostic Triangle.
10. Aesthetic retainers.
