

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.

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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.

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I. Elaborate on:

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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.

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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.

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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

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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

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Time: 180 Minutes

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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.

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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.

[LR 669]

NOVEMBER 2020
(AUGUST 2020 SESSION)

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

1. Write about etiology, clinical features, diagnosis and management of class II division I Malocclusion in a growing child.
2. Enumerate various methods of gaining space in Orthodontics. Write in detail about Proximal Stripping.

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

1. Hand wrist radiograph.
2. Tissue changes to orthodontic force.
3. Study models.
4. Management of Crossbite.
5. Types of tooth movement.
6. Local etiological factors of Malocclusion.
7. Cartilagenous theory.
8. Inclined planes.
9. Ugly duckling stage .
10. Principles of surgical Orthodontics.
