

Rajiv Gandhi University of Health Sciences, Karnataka

IV B.D.S Degree Examination – Nov 2021

Time: Three Hours

Max. Marks: 70 Marks

ORTHODONTICS & DENTOFACIAL ORTHOPEDICS(RS3)

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAY

2X10 = 20 Marks

1. Define orthodontics. Describe in detail the Acherman profit classification of malocclusion.
2. Define cephalometrics. Describe in detail the various anatomical landmarks and planes used in cephalometric analysis.

SHORT ESSAYS.

3. Hand wrist radiograph.
4. Growth site and growth centre.
5. Mode of action of activator.
6. Clinical features of mouth breathing.
7. Simons law of canine.
8. VTO.
9. Moyers space analysis.
10. Meckel's cartilage.



SHORT ANSWERS.

11. SNB angle.
12. Adams clasp.
13. Primate spaces.
14. Wilkinsons extraction.
15. Name the disturbances in tooth form with age.

Rajiv Gandhi University of Health Sciences, Karnataka

IV B.D.S Degree Examination – March 2021

Time: Three Hours

Max. Marks: 70 Marks

ORTHODONTICS & DENTOFACIAL ORTHOPEDICS(RS3)

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAY

2X10 = 20 Marks

1. Enlist and explain various methods of space gaining in orthodontics.
2. Discuss various methods of gathering growth data. Write a note on vital staining and implants for growth studies.

SHORT ESSAYS.

3. Essential diagnostic aids.
4. Activator and headgear.
5. Class-III Malocclusion.
6. Thumb sucking habits.
7. Problem associated with cleft Lip and Palate child.
8. Pressure tension theory of tooth movement.
9. Arch perimeter analysis.
10. Methods of serial extraction.



SHORT ANSWERS.

11. Uglyduckling stage.
12. Adams clasp.
13. Flush terminal plane
14. Simple technique.
15. Supernumerary tooth.

Rajiv Gandhi University of Health Sciences, Karnataka

IV B.D.S Degree Examination – OCT 2020

Time: Three Hours

Max. Marks: 70 Marks

ORTHODONTICS & DENTOFACIAL ORTHOPEDICS(RS3)

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAY

2X10 = 20 Marks

1. Discuss Pre-natal and Post-natal growth of palate and its clinical implications.
2. Define retention and relapse. Explain schools of retention. Describe various theories of retention.

SHORT ESSAYS

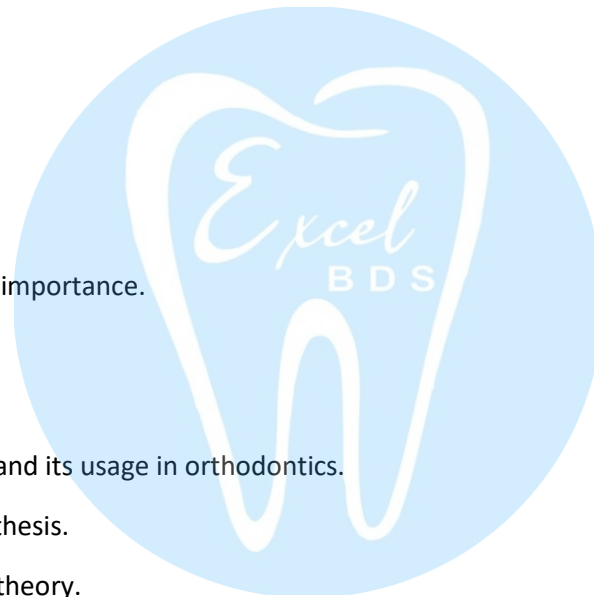
(8X5=40MARKS)

3. Adenoid facies.
4. Nasolabial angle and its importance.
5. Anchorage
6. Piezo-electric theory.
7. Types of Stainless steel and its usage in orthodontics.
8. Functional Matrix Hypothesis.
9. Sutural vs cartilaginous theory.
10. Scammons growth curve.

SHORT ANSWERS

(5X2=10MARKS)

11. Undermining resorption.
12. Clinical features of Class III malocclusion.
13. Nitinol.
14. Balanced extraction.
15. Etiology of cleft Lip and Palate.



Rajiv Gandhi University of Health Sciences, Karnataka

IV B.D.S Degree Examination – Dec 2019

Time: Three Hours

Max. Marks: 70 Marks

ORTHODONTICS & DENTOFACIAL ORTHOPEDICS(RS3)

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAY

2X10 = 20 Marks

1. Discuss in detail development of occlusion.
2. Enumerate Diagnostic aids and discuss in detail about clinical examination of orthodontic patient.

SHORT ESSAYS

8X5=40MARKS

3. Canine retractors.
4. Functional regulator.
5. Lip biting habit and its consequences.
6. Surgical orthodontics.
7. Various methods of distalization.
8. Classify anchorage.
9. Transient malocclusion.
10. Muscles of mastication Origin and Insertion.



SHORT ANSWERS

5X2=10MARKS

11. Precision.
12. Lip bumper.
13. Retainers.
14. Catlan's appliance.
15. Contribution of Edward H Angle in orthodontics.

Rajiv Gandhi University of Health Sciences, Karnataka

IV B.D.S Degree Examination – JUNE- 2019

Time: Three Hours

Max. Marks: 70 Marks

ORTHODONTICS & DENTOFACIAL ORTHOPEDICS(RS3)

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAY

2X10 = 20 Marks

1. Define and classify functional appliances. Write in detail about activator.
2. Write in detail about Ackerman and Profitt classification of Malocclusion. Enumerate Andrew's six keys of normal occlusion.

SHORT ESSAYS

8X5=40MARKS

3. Reverse Pull Head Gear
4. Components of fixed orthodontic appliances
5. Anchorage in orthodontics
6. Role of periodontal fibres in Relapse
7. Slenderization
8. Clinical features of class II Div. 2 Malocclusion
9. Retained infantile swallow
10. Types of orthodontic tooth movement

SHORT ANSWERS

5X2=10MARKS

11. Millard's rule of 10
12. Arch perimeter analysis
13. Molar Distalization Appliances
14. Nickel allergy
15. Modification of Adams Clasp



Rajiv Gandhi University of Health Sciences, Karnataka

IV B.D.S Degree Examination – DECEMBER- 2018

Time: Three Hours

Max. Marks: 70 Marks

ORTHODONTICS & DENTOFACIAL ORTHOPEDICS(RS3)

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAY

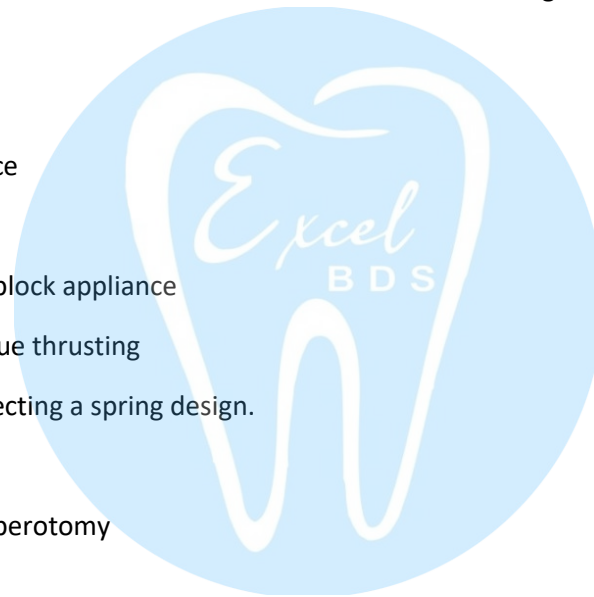
2X10 = 20 Marks

1. Define orthodontics. Write about the history of orthodontics various contributions.
2. Differentiate between pseudo and true class 3. Discuss in detail management of class 3 malocclusion.

SHORT ESSAYS

(8X5=40MARKS)

3. Methods of gaining space
4. Bakers anchorage
5. Mode of action of twin block appliance
6. Clinical features of tongue thrusting
7. Describe the factors affecting a spring design.
8. Uses or OPG
9. Circaum supra crestal fiberotomy
10. Ponts index



SHORT ANSWERS

(5X2=10MARKS)

11. FMA angle
12. Finger spring
13. Eruption and shedding table of dentition
14. Stages in cervical vertebrae maturation
15. Classify cross bite

Rajiv Gandhi University of Health Sciences, Karnataka

IV B.D.S Degree Examination – JULY- 2018

Time: Three Hours

Max. Marks: 70 Marks

ORTHODONTICS & DENTOFACIAL ORTHOPEDICS(RS3)

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAY

2X10 = 20 Marks

1. Discuss prenatal and postnatal growth of mandible and its clinical implications in orthodontics.
2. Classify myofunctional appliance. Discuss in detail about the mechanism of action, fabrication and trimming of activator.

SHORT ESSAYS

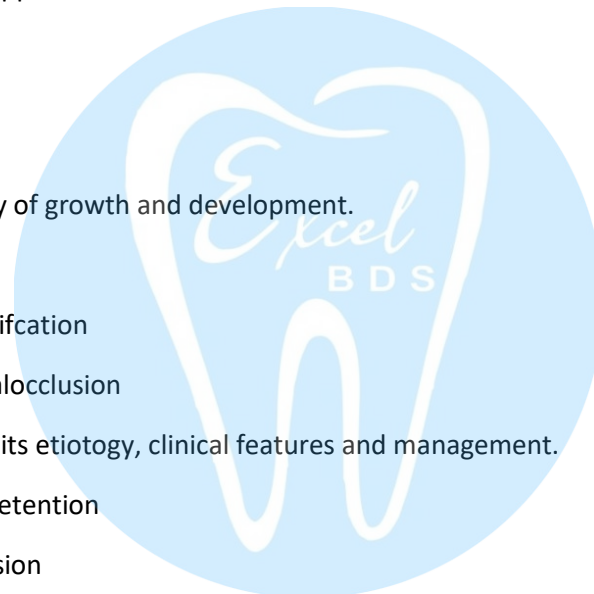
(8X5=40MARKS)

3. Functional matrix theory of growth and development.
4. Thumb-sucking habit
5. Ackerman-Proffit's classification
6. Local factors causing malocclusion
7. Tongue thrusting habit- its etiology, clinical features and management.
8. Enumerate theories of retention
9. Pseudo class III malocclusion
10. Minor surgical procedures in orthodontics

SHORT ANSWERS

(5X2=10MARKS)

11. Proximal stripping
12. Leeway space of Nance
13. Speech and malocclusion
14. Etiology of cleft lip and palate
15. Intermaxillary anchorage



Rajiv Gandhi University of Health Sciences, Karnataka

IV B.D.S Degree Examination – DECEMBER- 2017

Time: Three Hours

Max. Marks: 70 Marks

ORTHODONTICS & DENTOFACIAL ORTHOPEDICS(RS3)

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAY

2X10 = 20 Marks

1. Define preventive orthodontics. Discuss the various treatment plans given under the preventive orthodontic.
2. Classify the aetiology of malocclusion. Discuss general factors in detail.

SHORT ESSAYS

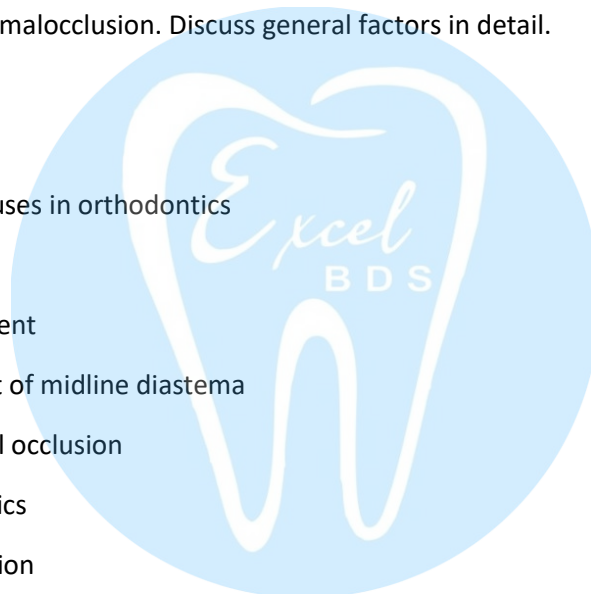
(8X5=40MARKS)

3. Cephalometrics and Its uses in orthodontics
4. Thumb sucking habit
5. Theories of tooth movement
6. Aetiology and treatment of midline diastema
7. Andrews' keys to normal occlusion
8. Anchorage in orthodontics
9. Maxillary Palatal Expansion
10. Orthodontics management of cleft lip and palate cases

SHORT ANSWERS

(5X2=10MARKS)

11. Vestibular screen
12. Scammon's curve of growth
13. Adams clasp
14. Undermining resorption
15. S-N-A Angle



Rajiv Gandhi University of Health Sciences, Karnataka

IV B.D.S Degree Examination – JUNE- 2017

Time: Three Hours

Max. Marks: 70 Marks

ORTHODONTICS & DENTOFACIAL ORTHOPEDICS(RS3)

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAY

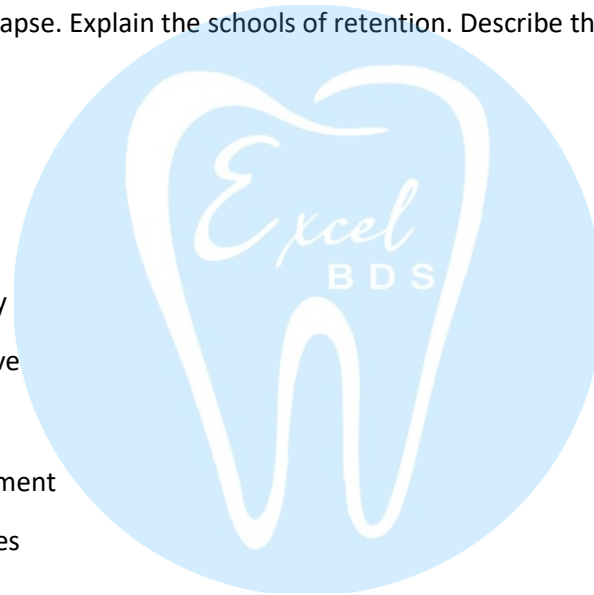
2X10 = 20 Marks

1. Discuss in detail about the postnatal growth of maxilla and add a note on its relevance to orthodontics.
2. Define retention and relapse. Explain the schools of retention. Describe the various theories of retention.

SHORT ESSAYS

(8X5=40MARKS)

3. Serial extraction
4. Model analysis
5. Functional matrix theory
6. Scammon's growth curve
7. Tongue thrusting
8. Theories of tooth movement
9. Myofunctional appliances
10. Space maintainers



SHORT ANSWERS

(5X2=10MARKS)

11. Reciprocal anchorage
12. Lip bumper
13. FMA
14. Shape memory alloy
15. Cephalostat

Rajiv Gandhi University of Health Sciences, Karnataka

IV B.D.S Degree Examination – DECEMBER- 2016

Time: Three Hours

Max. Marks: 70 Marks

ORTHODONTICS & DENTOFACIAL ORTHOPEDICS(RS3)

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAY

2X10 = 20 Marks

1. Discuss Retention and Relapse in Orthodontics.
2. Classify orthodontic appliances and discuss in detail the various components of the Fixed Appliance. Add a note on its advantages and disadvantages.

SHORT ESSAYS

(8X5=40MARKS)

3. Dewey's modification of Angle's classification
4. Define and classify Anchorage. Add a note on Reciprocal Anchorage.
5. Orthopedic appliances
6. Frontal v/s Rearward resorption
7. Thumb and digit sucking
8. Transient Malocclusion
9. Types of Tooth movement
10. Procedures undertaken in Preventive Orthodontics

SHORT ANSWERS

(5X2=10MARKS)

11. Ashley Howe's Analysis
12. Clinical evaluation of Facial profile
13. Centric relation and centric occlusion
14. Pericision
15. 1st premolar extraction

Rajiv Gandhi University of Health Sciences, Karnataka

IV B.D.S Degree Examination – JUNE- 2016

Time: Three Hours

Max. Marks: 70 Marks

ORTHODONTICS & DENTOFACIAL ORTHOPEDICS(RS3)

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAY

2X10 = 20 Marks

1. Define Anchorage in orthodontics. Classify Anchorage and discuss in detail the methods to reinforce Anchorage.
2. Describe in detail the histological changes, which will take place in response to heavy and light orthodontic forces.

SHORT ESSAYS

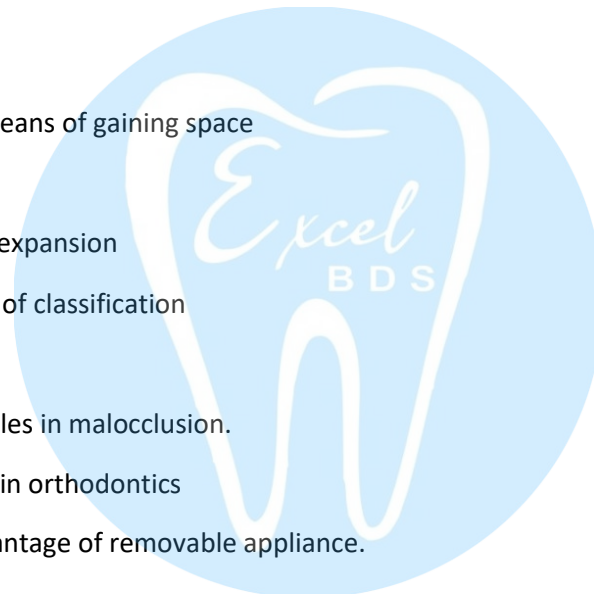
(8X5=40MARKS)

3. Molar Distalisation as means of gaining space
4. Buccinator mechanism
5. Rapid vs Slow maxillary expansion
6. Ackerman Proffit system of classification
7. Long face syndrome
8. Discuss the role of muscles in malocclusion.
9. Uses of Cephalometrics in orthodontics
10. Advantage and disadvantage of removable appliance.

SHORT ANSWERS

(5X2=10MARKS)

11. Name the various synchodrosis. Which is the last synchodrosis to ossify?
12. Leeway space of Nance
13. Incisor Liability
14. Primate space
15. Andrew's keys of occlusion



Rajiv Gandhi University of Health Sciences, Karnataka

IV B.D.S Degree Examination – DECEMBER- 2015

Time: Three Hours

Max. Marks: 70 Marks

ORTHODONTICS & DENTOFACIAL ORTHOPEDICS(RS3)

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAY

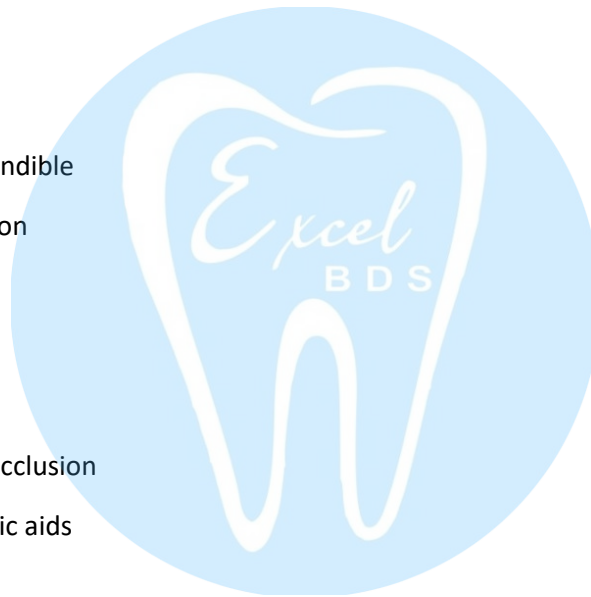
2X10 = 20 Marks

1. Define Interceptive Orthodontics and describe the various procedures.
2. Enumerate various theories of Growth. Discuss functional matrix hypothesis in detail.

SHORT ESSAYS

(8X5=40MARKS)

3. Mixed dentition analysis
4. Post-natal growth of Mandible
5. Raped maxillary expansion
6. Tongue thrust habit
7. Cross bite
8. Labial bows
9. Role of Genetics in Malocclusion
10. Supplemental diagnostic aids



SHORT ANSWERS

(5X2=10MARKS)

11. Wilkinson's Extraction
12. Limitations of Cephalometrics
13. Molar distalization
14. Baker's Anchorage
15. Catalan's appliance

Rajiv Gandhi University of Health Sciences, Karnataka

IV B.D.S Degree Examination – JULY- 2015

Time: Three Hours

Max. Marks: 70 Marks

ORTHODONTICS & DENTOFACIAL ORTHOPEDICS(RS3)

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAY

2X10 = 20 Marks

1. Define occlusion and malocclusion. write in detail about Angle's classification of malocclusion.
2. Indications for selection of Myo-functional appliance therapy and write in brief about mode of action of Myo-functional appliance.

SHORT ESSAYS

(8X5=40MARKS)

3. Tipping vs Bodily tooth movement
4. Describe in detail about the functional matrix theory.
5. Transient malocclusion
6. Etiology, clinical findings and management of Tongue thrust habit
7. Describe Simon's classification in detail.
8. Enumerate the various theories of retention.
9. Methods of studying physical growth
10. Component parts of fixed appliance

SHORT ANSWERS

(5X2=10MARKS)

11. Curve of spee
12. Centre of Resistance
13. Components of 18:8 alloy
14. Flush terminal plane
15. Infantile swallow

Rajiv Gandhi University of Health Sciences, Karnataka

IV B.D.S Degree Examination – DECEMBER- 2014

Time: Three Hours

Max. Marks: 70 Marks

ORTHODONTICS & DENTOFACIAL ORTHOPEDICS(RS3)

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAY

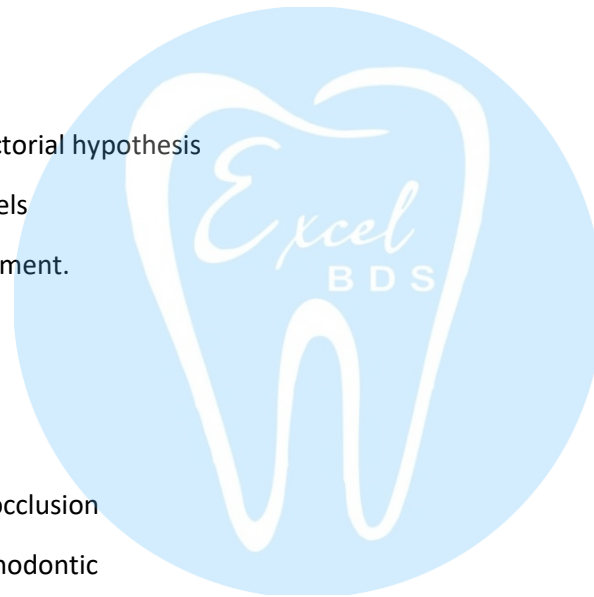
2X10 = 20 Marks

1. Classify orthodontic appliances. Discuss in detail about various components of Fixed Appliances with their advantages and disadvantages.
2. Classify Cleft Lip and Palate. Add a note on its etiology and management of Cleft Palate.

SHORT ESSAYS

(8X5=40MARKS)

3. Von Limborgh's multifactorial hypothesis
4. Orthodontic Study Models
5. Theories of Tooth Movement.
6. Extra Oral Anchorage
7. Space maintainers
8. Oral screen.
9. Features of Class II Malocclusion
10. Role of genetics in Orthodontic



SHORT ANSWERS

(5X2=10MARKS)

11. Cortical Drift and Displacement
12. Safety Valve mechanism
13. Growth trends
14. Z spring
15. Y axis

Rajiv Gandhi University of Health Sciences, Karnataka

IV B.D.S Degree Examination – JUNE- 2014

Time: Three Hours

Max. Marks: 70 Marks

ORTHODONTICS & DENTOFACIAL ORTHOPEDICS(RS3)

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAY

2X10 = 20 Marks

1. What are essential diagnostic aids? Describe any three study model analysis in permanent dentition.
2. What are the different methods of gaining space in orthodontic? Add a note on rapid palatal expansion.

SHORT ESSAYS

(8X5=40MARKS)

3. Growth spurts
4. Mesio occlusion
5. Differential growth curves
6. Phases of deglutition
7. Profile of the face
8. Anterior deep bite
9. Six keys to normal occlusion
10. Cantilever springs.



SHORT ANSWERS

(5X2=10MARKS)

11. Primary displacement
12. Curve of spee
13. Y-axls
14. Permanent retentlon
15. Pericision

Rajiv Gandhi University of Health Sciences, Karnataka

IV B.D.S Degree Examination – DECEMBER- 2013

Time: Three Hours

Max. Marks: 70 Marks

ORTHODONTICS & DENTOFACIAL ORTHOPEDICS(RS3)

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAY

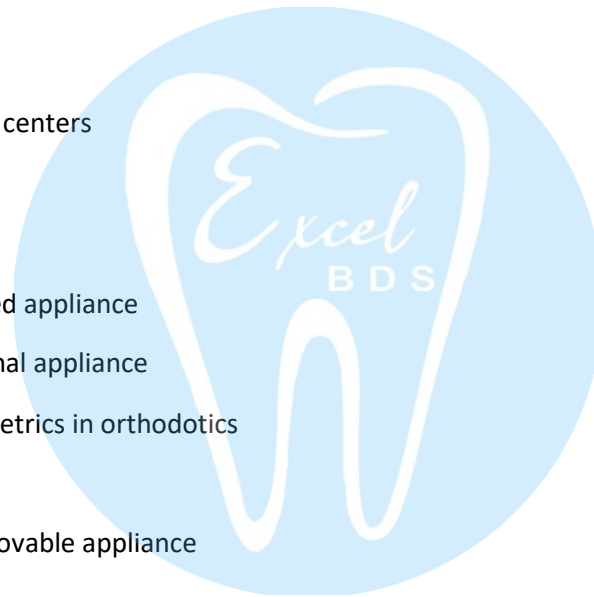
2X10 = 20 Marks

1. Describe the various stages of development of dentition. Add a note on Importance of mixed dentition period.
2. What is Disto-occlusion? Describe the various growth modulation techniques to intercept; class II skeletal pattern.

SHORT ESSAYS

(8X5=40MARKS)

3. Growth site and growth centers
4. Facial divergence
5. Orthopedic force
6. Component parts of fixed appliance
7. Classification of functional appliance
8. Application of Cephalometrics in orthodontics
9. Freeway space
10. Retentive parts of removable appliance



SHORT ANSWERS

(5X2=10MARKS)

11. Non invasive methods of gaining space
12. Indications of reverse head gear
13. Etiology. of anterior open bite
14. Gerber space regainer
15. NITINOL

Rajiv Gandhi University of Health Sciences, Karnataka

IV B.D.S Degree Examination – JUNE- 2013

Time: Three Hours

Max. Marks: 70 Marks

ORTHODONTICS & DENTOFACIAL ORTHOPEDICS(RS3)

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAY

2X10 = 20 Marks

1. Enumerate various types of tooth movement. Discuss in detail tissue response to heavy orthodontic force.
2. Enumerate various theories of growth. Discuss in details about functional matrix theory.

SHORT ESSAYS

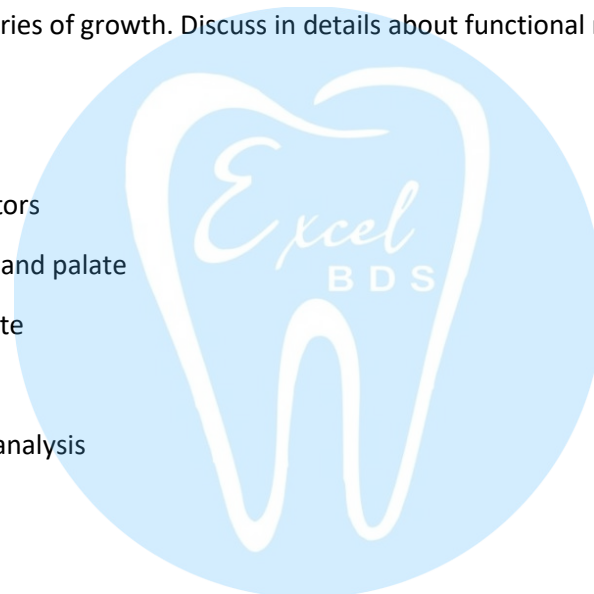
(8X5=40MARKS)

3. Theorems of retention
4. Skeletal maturity indicators
5. Classification of cleft lip and palate
6. Management of deep bite
7. Thumb sucking habit
8. Mixed dentition model analysis
9. Differential growth
10. Oral screen

SHORT ANSWERS

(5X2=10MARKS)

11. Reciprocal Anchorage
12. Wolfs Law
13. Space maintainers
14. Bakers Anchorage
15. Incisal Liability



Rajiv Gandhi University of Health Sciences, Karnataka

IV B.D.S Degree Examination – DECEMBER- 2012

Time: Three Hours

Max. Marks: 70 Marks

ORTHODONTICS & DENTOFACIAL ORTHOPEDICS(RS3)

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

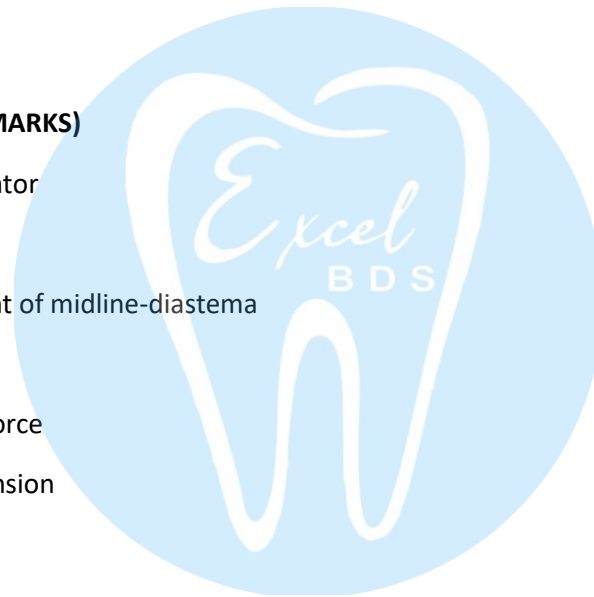
LONG ESSAY

2X10 = 20 Marks

1. Discuss clinical features of Class II Division I Malocclusion. Write in detail the treatment modalities undertaken for Class II Division I Malocclusion during dentition period.
2. Enumerate various theories of tooth movement. Write in detail about peizo electric of tooth movement.

SHORT ESSAYS (8X5=40MARKS)

3. Mode of action of activator
4. Cortical anchorage
5. Causes and management of midline-diastema
6. Open bite management
7. Optimum orthodontic force
8. Rapid versus Slow expansion
9. Tongue thrusting habit
10. Space maintainers



SHORT ANSWERS

(5X2=10MARKS)

11. Ugly duckling stage
12. Differential growth
13. Meckel's cartilage
14. Y-axis
15. Kealings diagnostic set up

Rajiv Gandhi University of Health Sciences, Karnataka

IV B.D.S Degree Examination – JUNE/JULY- 2012

Time: Three Hours

Max. Marks: 70 Marks

ORTHODONTICS & DENTOFACIAL ORTHOPEDICS(RS3)

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAY

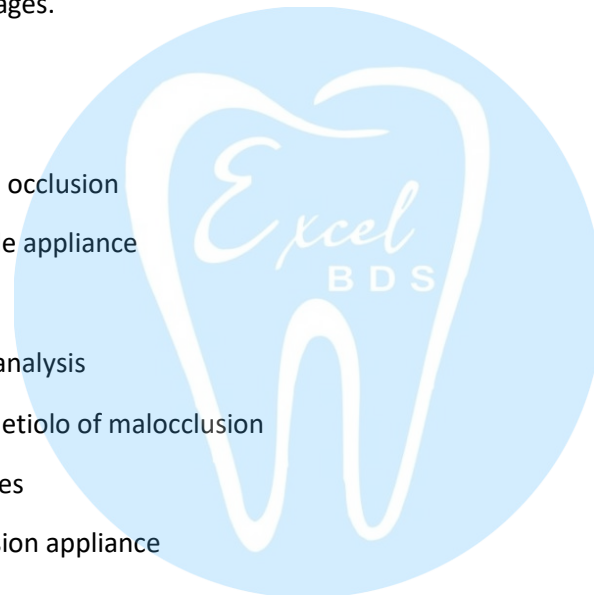
2X10 = 20 Marks

1. Enumerate various theories of teeth Movement? Write in detail about histological changes occurring during orthodontics tooth movement
2. Classify orthodontic appliances. Discuss in detail about various components of fixed appliance their advantages and disadvantages.

SHORT ESSAYS

(8X5=40MARKS)

3. Reciprocal anchorage
4. Andrew's keys to normal occlusion
5. Advantages of Removable appliance
6. Hand wrist radiograph
7. Mixed dentition model analysis
8. Mention local factors in etiolo of malocclusion
9. Shape Memory arch wires
10. Rapid Maxillary Expansion appliance



SHORT ANSWERS

(5X2=10MARKS)

11. Adams Clasp
12. Chin cup
13. Jackson's triad
14. Ankylosis of teeth
15. 18/8 stainless steel



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