Q-1 Define Orthodontics. Write aims, objectives & limitations of Orthodontics in detail. 14

Q-2 Write notes on any two
   a. Functional matrix theory.
   b. Growth of mandible.
   c. Andrews six keys of occlusion. 14

Q-3 Write short notes on any three—
   a. Gumpads
   b. Growth spurts
   c. Wolf’s law
   d. Ugly Duckling stage 12

Q-4 Define malocclusion. Classify it & write Angle’s classification in detail. 14

Q-5 Write notes on any two
   a. Space maintainers.
   b. Serial extraction.
   c. Model analysis. 14

Q-6 Write short notes on any three
   a. Down’s analysis
   b. Midline diastema
   c. Mouth breathing habit.
   d. Tweed’s triangle 12
TERMINAL EXAM (ORTHODONTICS)

FINAL YEAR B.D.S.
NARSHNBHAI PATEL DENTAL COLLEGE & HOSPITAL
VISNAAGAR

(TIME :- 2 HOURS) (MARKS 50)

[SECTION : 1]

Q: 1 Define Growth & Development. Describe in detail about principles of growth. (10)

Or:
Describe in detail about post natal growth of mandible and its clinical significance.

Q: 2 SHORT NOTES (Any three) (15)

1. Cephalocaudal Gradient of Growth.
2. Carey's Analysis.
3. Orthodontic Study Models.
4. Tongue Thrusting Habits.

[SECTION : 2]

Q: 1 Classify Etiology of Malocclusion and describe in detail about local factors. (10)

Q: 2 SHORT NOTES (Any three) (15)

1. Histology of Tooth Movement.
2. Enlow's 'V' principle of growth.
3. Headgear.
4. Tweed's Analysis.
NARSINHBHAI PATEL DENTAL COLLEGE AND HOSPITAL, VISNAGAR
PRELIMINARY EXAMINATION- 2011
IV B.D.S.

SECTION – I

1) Enumerate theories of growth. Describe in detail about functional matrix theory. (20)

2) Short notes: (any three) (18)
   a) Downs analysis
   b) Ackerman and Proffit classification of malocclusion
   c) Ugly duckling stage
   d) Mouth breathing habit
   e) Pressure tension theory of tooth movement

3) Short notes: (each question carrying one mark) (12)
   a) Define point S and write normal value of angle SNA
   b) Jackson’s triad
   c) Clinical significance of Pont’s index
   d) Enumerate essential diagnostic aids
   e) Optimum orthodontic force
   f) Define – Stationary anchorage

SECTION – II

1) Principles of myofunctional appliances. Describe in detail about Bionator. (20)

2) Short notes: (any three) (18)
   a) Adjunctive orthodontic procedure
   b) Circumferential supracrestal fibromomy
   c) Clinical features of Angle’s class II malocclusion
   d) Adam’s clasp
   e) Chin cup

3) Short notes: (each question carrying one mark) (12)
   a) Enumerate fixed functional appliances
   b) Enumerate methods of gaining space
   c) Hawley’s retainer
   d) Treatment options of midline distema
   e) Scissors bite
   f) Eruption age of permanent upper and lower canine
1) Describe Angle’s Classification of Malocclusion. Discuss in detail about Angle’s Class-II Malocclusion. (20)
2) Short notes: (any five) (30)
   a) Bionator
   b) Nance palatal arch
   c) Thumb sucking habit
   d) Headgear
   e) Simple Anchorage
   f) Treatment of deep bite
   g) Different methods of gaining space
NOOTAN DENTAL COLLEGE VISNAGAR
FIRST TERMINAL EXAMINATION ---NOVEMBER 2010

ORTHODONTICS

SECTION—1

Q-1 Describe the postnatal growth of mandible.  

OR

Q-1 Describe Angle's classification of malocclusion.  

Q-2 Write short notes on (any three)
   a. Wolf's law
   b. Cartilagenous theory by Scott
   c. Jackson's triad
   d. Growth spurts

SECTION—2

Q-3 What are diagnostic aids? Enumerate them and write in detail about Down's cephalometric analysis.  

OR

Q-4 Discuss histology of tooth movement in detail.

Q-5 Write short notes (any three)
   a. Thumbsucking habit
   b. Ashley Howe's Index
   c. Distal shoe space maintainer
   d. Adam's clasp
NARSHINBHAI PATEL DENTAL COLLEGE AND HOSPITAL, VISNAGAR
PRELIMINARY EXAMINATION- 2011
IV B.D.S. (OCT/DEC. BATCH)

(3 Hours) (100 Marks)

SECTION – I

1) Define growth and development. Describe in detail about methods of prediction of growth. (20)
2) Short notes: (any three) (18)
   a) Steiner’s analysis
   b) Sicher’s classification of malocclusion
   c) Histology of tooth movement
   d) Thumb sucking habit
   e) Wolff’s law of transformation of bone
3) Short notes: (each question carrying one mark) (12)
   a) Aims and objectives of orthodontic treatment
   b) Clinical significance of Bolton analysis
   c) Define balanced occlusion
   d) Eruption age of upper permanent central incisor and lower canine
   e) Indication of orthodontic study models
   f) Define – Reciprocal anchorage

SECTION – II

1) Define anchorage and describe in detail. (20)
2) Short notes: (Any three) (18)
   a) Activator
   b) Deep bite
   c) Clinical features of Angle’s class I malocclusion
   d) Labial bow
   e) Cleft lip and palate
3) Short notes: (Each question carrying one mark) (12)
   a) Enumerate myofunctional appliances
   b) Enumerate methods of serial extraction
   c) Clinical significance of Ashley howe’s index
   d) Treatment options of cross bite
   e) Enumerate wires used in orthodontics
   f) Class II elastics
TERMINAL EXAMINATION- 2011
SUB: ORTHODONTICS
FINAL YEAR B.D.S.

50 Marks

SECTION –I

1) Define growth and development. Describe in detail post-natal growth of maxilla. (10)

OR

Describe in detail etiology of malocclusion.

2) Short notes: (any three) (15)
   a) Scammon’s curve of growth
   b) Fishman’s skeletal maturity indicator
   c) Tweed’s triangle
   d) Growth spur
   e) Methods of studying growth

SECTION – II

1) Describe in detail Angle’s classification of malocclusion and its drawbacks and modification. (10)

2) Short notes: (any three) (15)
   a) Ideal requirements of orthodontic appliances
   b) Retraction plate
   c) Clinical features of Angle’s class II malocclusion
   d) ‘Z’ spring
   e) Distal shoe space maintainer
SECTION-1

Q.1 Define malocclusion. Describe in detail about Angle’s classification.  

Q.2 Short notes (Any three)

1. Functional Matrix theory of Growth
2. Ugly duckling stage
3. Flush terminal plane relationship of molar
4. Dewey’s classification of malocclusion

SECTION-2

Q.1 Define and classify myofunctional appliances. Describe in detail about activator. 

Q.2 Short notes (Any three)

1. Classify removable appliances
2. Head gear
3. Clinical feature of class I malocclusion
4. Hawley’s appliance
SECTION – I

Q. 1) Describe in detail about etiology of malocclusion. (10)
     OR
     Define and classify anchorage. Describe in detail about anchorage.

Q. 2) Short notes: (any three) (15)
     a) Scammon’s curve of growth
     b) Nance method of serial extraction
     C) Distal shoe space maintainer
     d) Flush terminal plane relationship of dentition

SECTION – II

Q. 1) Describe in detail about methods of gaining space. (10)
     OR
     Describe in detail about management of class II malocclusion.

Q. 2) Short notes: (any three) (15)
     a) Treatment of open bite
     b) Classification of cleft lip and palate
     c) Mouth breathing habit
     d) Types of retention
ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS
PRELIMINARY EXAM-2012
FINAL YEAR B.D.S. (OCT-DEC BATCH)

(3 hours) (Marks: 100)

SECTION-1

Q.1 Define Growth and development. Describe in detail about different methods of studying physical growth. (13)

Q.2 Describe in detail about etiology of malocclusion. (13)

Q.3 SHORT NOTES (ANY THREE) (18)
   1. Imaginary occlusal planes and curves
   2. Andrew's six keys of occlusion
   3. Classification of incisor relationship
   4. Hyalinization period of orthodontic tooth movement

Q.4 SHORT QUESTION (6)
   1. Define point 'S'
   2. What is normal value of angle ANB?
   3. Define centre of resistance
   4. Canine class II relationship
   5. What is normal value of nasolabial angle?

SECTION-2

Q.1 Enumerate various interceptive orthodontic procedures. Describe in detail about serial extraction. (13)

Q.2 Describe in detail about expansion in Orthodontics. (13)

Q.3 SHORT NOTES (ANY THREE) (18)
   1. Different methods of gaining space
   2. Classification of removable appliances
   3. Activator
   4. Head gear

Q.4 SHORT QUESTION (6)
   1. What is bimaxillary protrusion?
   2. Scissor bite
   3. Bionator was invented by ________.
   4. Difference between supernumerary and supplementary tooth
   5. Midline diastema
   6. Composition of flux

Q.2 Short notes (Any Five)
1. Preventive orthodontic procedures.
2. Computers in orthodontics as diagnostic tools.
3. Ashwley howe’s analysis.
4. Histology of tooth movement.
5. Down’s analysis.
6. CVMI stages.

Q.3 Short notes.
1. Jackson’s triad
2. Enlow’s expanding V Principal.
3. Third & fourth branchial arches are also called as
4. Leeway Space
5. Functional occlusion.
Q.1 Roll of orthodontist in management of craniofacial anomalies.  

Q.2 Short notes (Any three)  
   1. Theorems of retention & relapse.  
   5. Comprehensive approach in adult orthodontics.  
   6. Clinical features of class II division I malocclusion.  

Q.3 Short notes.  
   1. Write three modification of adam’s clasp.  
   2. Finger spring.  
   3. Lischer’s classification of malocclusion.  
   4. Slendarization  
   5. Anchorage.
ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS
SECOND INTERNAL EXAM-2012
FINAL YEAR B.D.S.

(Marks: 50)

SECTION-1

Q.1 Define Malocclusion. Describe in detail about etiology of malocclusion. (10)

Q.2 SHORT NOTES (Any Three) (15)
   1. Tongue thrusting Habit
   2. Buccinator Mechanism
   3. Headgear
   4. Fishman’s Skeletal Maturity Indicators

SECTION-2

Q.1 Write in Detail About Different Methods of Gaining Space. (10)

Q.2 SHORT NOTES (Any Three) (15)
   1. Quad helix
   2. Management of Crossbite
   3. Skeletal v/s Dental Deepbite
   4. Ugly duckling Stage
SECTION I

Orthodontia

October/November - 2010

Fourth Year B.D.S. Examination

D-6730

Instructions: (1) Write legibly.
(2) Use separate answer books for each section.
(3) Figures to the right indicate full marks.
(4) Read the questions in the right order.
(5) Total Marks: 80

Time: 3 Hours

SECTION II

Orthodontic Study models.

Andrew's six keys of normal occlusion

Simons classification

Jackson's ideal

Orthodontic treatment

Discuss the various aims, objectives and needs for orthodontics. What is Jackson's ideal?

Orthodontic growth of maxillomaxillary complex and development of malocclusion. Discuss various types.

Describe the role of thumb sucking habit in development of malocclusion.

Describe development of dentition from birth to mix dentition period.

Orthodontic What is prevalence of orthodontics? Describe orthodontic study models.

Andrew's six keys of normal occlusion.

Simons classification.

Jackson's ideal.

Orthodontic treatment.

Discuss the various aims, objectives and needs for orthodontic treatment.

Discuss various types of Orthodontics.

Discuss various aims, objectives and needs for orthodontics.

Orthodontic growth of maxillomaxillary complex and development of malocclusion. Describe the role of thumb sucking habit in development of malocclusion.

Describe development of dentition from birth to mix dentition period.

Orthodontic What is prevalence of orthodontics? Describe orthodontic study models.

Andrew's six keys of normal occlusion.

Simons classification.

Jackson's ideal.

Orthodontic treatment.

Discuss the various aims, objectives and needs for orthodontic treatment.

Discuss various types of Orthodontics.

Discuss various aims, objectives and needs for orthodontics.

Orthodontic growth of maxillomaxillary complex and development of malocclusion. Describe the role of thumb sucking habit in development of malocclusion.

Describe development of dentition from birth to mix dentition period.

Orthodontic What is prevalence of orthodontics? Describe orthodontic study models.

Andrew's six keys of normal occlusion.

Simons classification.

Jackson's ideal.

Orthodontic treatment.

Discuss the various aims, objectives and needs for orthodontic treatment.

Discuss various types of Orthodontics.

Discuss various aims, objectives and needs for orthodontics.

Orthodontic growth of maxillomaxillary complex and development of malocclusion. Describe the role of thumb sucking habit in development of malocclusion.

Describe development of dentition from birth to mix dentition period.
Write short notes (any three):

1. (d) Re-protocol anchorages
2. (c) Causes of relapse
3. Ashley’s Index
4. (b) Activator

OR

Describe the histology of tooth movement

SECTION II

1. (d) Maintainer
2. (c) Distal space maintainer
3. Points index
4. Vestibular screen

6. Short notes (any three):

12. Causes of relapse and methods to overcome them.
14. Define retention and relapse. Discuss various.

OR

2. What is cephalometrics? Discuss Downs analysis.
14. Define anchorage. Discuss various types of anchorage.
I
1. Define Developmental spaces and PrimlMate spaces.
   (d) Gum pads
   (e) of orthodontics
   1.2 Define orthodontics. What are the divisions?
   (a) Melvin Moss,Theory of Growth
   (b) Aim of orthodontic treatment
   1.3 Write short notes: (any three)
   2. Orthodontics with cephalometrics in detail.
   3. Describe diagnosis and treatment planning in detail.
   OR
   4. Define malocclusion and describe need for orthognathic surgery.
   5. Define maturity indicators.
   6. In detail about assessment of skeletal age or between growth and development and describe skelatal maturity indicators.
   7. Define growth and development differences.

SECTION I

Total Marks: 80

Time: 3 Hours

(Old Course)
Orthodontics
June/July - 2012
Fourth Year B. D. S. Examination
K-9735

SECTION

Total Marks: 80

Time: 3 Hours

Instructions: (1) Write legibly.

Orthodontics
June/July - 2011
Fourth Year B. D. S. Examination
K-9735
SECTION II

1. Theories of tooth movement in orthodontics.

2. Write in detail on various classes used in orthodontic practice.

OR

Write in detail about management of space.

3. Short notes: (Any Three)

(a) Difference between direct and indirect reposition
(b) Points index
(c) Tweed’s analysis
(d) Rapid Maxillary Expansion (R. M. E.)


5. Define and describe ideal requirements of orthodontic appliances.


(d) Space Maintainers

(c) Jackson’s Tread

(b) Pretreatment horizontal (FH) plane

(e) Write short notes: (any three)
SECTION 1

Define Growth and Development Differences

Postnatal Growth of Maxillary

Time : 3 Hours

Total Marks : 70

(New Course)
Orthodontia
October/November - 2012
Fourth Year B. D. S. Examinations
Seal No. 1J-690
SECTION II

1. Write short notes (any three) in detail orthodontic appliance. Discuss 14.

II. Define and classifying orthodontic appliance. Discuss 14.

An interdental space is used to correct. An interdental space is provided by.

Normal cephalometric plane of an angle SNB is another name of primary space. Tooth RPE stands for RAP.

Diastema closure is an example of Chin cap is used to correct.

An orthodontic appliance invented by.

Management of deep bite and palatal requires Double consisted spring is made up of.

Functional matrix growth theory was originally give six keys of normal occlusion.

Herbert appliance is applied. The law of canine by Simon.

Ven diagram, Simple orthodontic, Circumferential clasps.

Bioclear II. Define interdceptive orthodontics. Enumerate the 14.

Anterior bite plane is used to correct. Orthodontic appliance is provided by.

Anchorage in a removable appliance provided by.
SECTION

1. Define and classify Habits. Write in detail about
14

2. Define Anterior splitting palate and discuss in detail.
14

3. Define Anterior. Discuss various types of
14

II

(2) Premolars
(3) Essential diagnostic aids
(4) Down's anomalies
(5) Leeway space

4. Define Anterior. Write in detail:
12

(1) Normal dentition
(2) Mixed dentition

3. Short notes. (Any three)
12

4. Define Anterior types of malocclusion.
14

5. Define Anterior. Write in detail:
14

(1) Of mandible
(2) Of maxilla

6. Define Anterior. Write in detail:
14

II

1. Define Anterior. Write in detail:
14

2. Define Anterior. Describe in detail:
14

3. Define Anterior. Describe in detail:
14

4. Define Anterior. Describe in detail:
14

II

1. Define Anterior. Describe in detail:
14

2. Define Anterior. Describe in detail:
14

3. Define Anterior. Describe in detail:
14

II

1. Define Anterior. Describe in detail:
14

2. Define Anterior. Describe in detail:
14

3. Define Anterior. Describe in detail:
14

II

1. Define Anterior. Describe in detail:
14

2. Define Anterior. Describe in detail:
14

3. Define Anterior. Describe in detail:
14

II

1. Define Anterior. Describe in detail:
14

2. Define Anterior. Describe in detail:
14

3. Define Anterior. Describe in detail:
14

II

1. Define Anterior. Describe in detail:
14

2. Define Anterior. Describe in detail:
14

3. Define Anterior. Describe in detail:
14

II

1. Define Anterior. Describe in detail:
14

2. Define Anterior. Describe in detail:
14

3. Define Anterior. Describe in detail:
14

II

1. Define Anterior. Describe in detail:
14

2. Define Anterior. Describe in detail:
14

3. Define Anterior. Describe in detail:
14

II

1. Define Anterior. Describe in detail:
14

2. Define Anterior. Describe in detail:
14

3. Define Anterior. Describe in detail:
14

II

1. Define Anterior. Describe in detail:
14

2. Define Anterior. Describe in detail:
14

3. Define Anterior. Describe in detail:
14
Clinical features of class II division II malocclusion:

- Appliances
- Advantages and disadvantages of removable
- Bonded RME
- Photos of retention and relapse

Short notes: (any three)

Management of class II malocclusion:

- Serial extraction
- Band and loop space maintainer
- Oral screen
- Sphenoid-occipital synchondroses

Write short notes: (any three)

Discuss Pont's Index

Describe various diagnostic aids in orthodontics
SECTION - I

1. Enumerate diagnostic aids in orthodontics. Write in detail about importance of case history and clinical examination. 14

2. Short notes: (any three) 15
   (a) Primary displacement V/s Secondary displacement
   (b) CVMI Stages
   (c) Development of Palate
   (d) Local factors of etiology of malocclusion
   (e) Clinical features and treatment of oral habits.

3. Fill in the blanks/Short questions: 6
   (1) Ugly duckling stage mainly seen at the age of ____________.
   (2) Andrew's fourth key to normal occlusion is ____________.
   (3) Lip biting habit is mainly corrected by ____________ appliance.
   (4) Key ridge.
   (5) Enumerate different muscles of mastication.
   (6) First branchial arch is also called as ____________.
SECTION - II

1 Define and classify myofunctional appliances and write in detail about Bionator.

2 Short notes: (any three)
   (a) Headgear
   (b) Interceptive orthodontics
   (c) Enumerate different methods of gaining space. Write in detail about slenderization.
   (d) Management of class III condition
   (e) Theorems of relapse.

3 Fill in the blanks/Short questions:
   (1) _______ cantilever type of space maintainer.
   (2) Activator was introduced by ________.
   (3) Facemask is also called as ________.
   (4) Laterocclusion is defined as ________.
   (5) Pseudoclasse III is defined as ________.
   (6) Normal overjet ________ mm and overbite ________ mm.
ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS
PRELIMINARY EXAM-2013
FINAL YEAR B.D.S. (OCT-DEC BATCH)

(3 hours) (Marks: 100)

SECTION-1

Q.1 Define growth center & growth site. Describe in detail about Pre-natal & Post-natal growth of Maxilla. (13)

Q.2 Enumerate different classification of malocclusion and describe in detail about simon’s classification. (13)

Q.3 SHORT NOTES (ANY THREE)
1. Tongue thrusting Habit
2. Serial extraction.
3. Imaginary occlusal planes and curves
4. Pont’s & Bolton’s analysis.

Q.4 SHORT QUESTION
1. Define point ‘B’
2. What is normal value of angle SNB?
3. Define centre of rotation
4. Canine class III relationship
5. IMPA mean value.
6. Define malocclusion.

SECTION-2

Q.1 Enumerate & describe in detail various preventive orthodontic procedures. (13)

Q.2 Management of class II malocclusion. (13)

Q.3 SHORT NOTES (ANY THREE)
1. Retention & Relapse
2. Classification of removable appliances
3. Bionator
4. Jasper jumper

Q.4 SHORT QUESTION
1. What is pseudo class III?
2. cross bite
3. Activator was invented by ________.
4. Oligodontia.
5. Midline diastema
6. Define soldering.
GDC-5650  Seat No.______
Fourth Year B. D. S. Examination
December – 2013
Orthodontia

Time :  Hours]  [Total Marks : 70

SECTION-I

1  Enumerate different theories of growth.  14
   Describe in detail about functional matrix theory.

2  Short notes : (any three)  15
   (a) Transient malocclusion
   (b) Postnatal growth of mandible
   (c) Ackermann profit classification
   (d) Bolton’s model analysis
   (e) Tongue-thrusting habit.

3  Fill in the blanks/short questions :  6
   (1) _______ is the most common type of supernumery tooth.
   (2) Early mesial shift utilizes _________.
   (3) Meckel cartilage is derived from ________ arch.
   (4) Extra tooth adjacent to the molar is called as _________.
   (5) Leptoprosopic facial form means _________.
   (6) _________ model analysis is used in mixed dentition.

GDC-5650]  1  [Contd...
SECTION-II

1 Classify orthodontic appliances. Write advantages and disadvantages of appliances. Write in detail about different springs in orthodontics.

2 Short notes: (any three)
   (a) Principles of myofunctional appliances
   (b) Management of crossbite
   (c) Quad helix
   (d) Nance method of serial extraction
   (e) Different types of retention methods.

3 Fill in the blanks / short questions:
   (1) Oral screen was introduced by ________.
   (2) Jasper jumper is ________ type of myofunctional appliance.
   (3) Lip bumper is ________ type of anchorage.
   (4) Bridge of Adam's clasp is fabricated of ________ angulation.
   (5) Narrow and short upper arch and broad lower arch is found in ________ malocclusion.
   (6) Different types of functional regulator.
NARSHINBHAI PATEL DENTAL COLLEGE AND HOSPITAL
ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS
MID TERM INTERNAL EXAM – 2014

SECTION-1

Long Notes (Any Two) (20 marks)

1) Define growth and development. Enumerate in detail about the methods of studying growth.

2) Enumerate different classification system of Malocclusion. Describe in detail about Ackermann & Profitt & Simon’s classification.

3) Different stages of development of dentition.

Short notes (Any three) (15 marks)

1) Down’s analysis.

2) Pont’s model analysis

3) Kesling’s diagnostic setup.

4) Functional matrix theory

Objectives (15 marks)

1) Jackson triad.

2) Father of modern orthodontics.

3) Define growth according to growth.

4) Define Point A

5) Normal value of FMIA
SECTION-2

Long Notes (Any Two) (20 marks)

1) Classify myofunctional appliances. Describe in detail about Bionator.
2) Define preventive orthodontics. Describe in detail about different methods of maintaining space.
3) Enumerate different methods of gaining space. Describe in detail about Rapid Maxillary Expansion.

Short notes (Any three) (15 marks)

1) FR-3
2) Reciprocal anchorage
3) Mouth breathing habit.
4) Nance’s method of serial extraction.

Objectives (15 marks)

1) Serial extraction was introduced by__________
2) Twin block was introduced by__________
3) Principle of myofunctional appliance.
4) Center of rotation for controlled tipping tooth movement.
5) Center of resistance for single rotated & multiple rotated tooth.
Narsinhbhai Patel Dental College & Hospital, Visnagar
Department of Orthodontics and Dentofacial Orthopedics
Fourth Year BDS Examination 2013-2014 (Regular Batch)

Time: 3 Hours

Total Marks: 100

SECTION-I

1. Long Essay
   a) Define growth and development. Differentiation between growth and development. Describe in detail about pre-natal and post-natal growth of maxilla.

2. Write short notes: (any five)
   a) Define and classify habits. Write clinical features of mouth breathing habit.
   b) Ackerman and profit classification.
   c) Functional matrix theory.
   d) CVMI stages.
   e) Enumerate different interceptive procedures.
   f) Enumerate general factors of malocclusion.
   g) Tweed’s triangle.

3. Short question:
   a) 'V' principle introduced by-------
   b) The term orthodontic is derived from.
      a) Greek.  b) Latin
   c) Normal mean value of FMA--------
   d) Following are theory of growth, except
      1. Functional matrix theory.
      2. sutural theory
      3. French
      4. Spanish
      2. Cartilaginous theory.
      4. Bolton’s theory.
   e) A tooth in the oral cavity can have a
      1. Center of resistance  2. Center of mass
      3. Center of rotation  4. Both 1 and 3
   f) Oral drive theory was given by--------
   g) Explain pseudo-class III
   h) Curve of spee and its normal value.
   i) Different body types
   j) Father of modern orthodontics is-------
   k) Simon’s low.
SECTION-II

1. Long Essay: 14 MARKS

   a) Define and classify myofunctional appliances. Principles of myofunctional appliances. Detail description of BIONATOR.

2. Write short notes :( any five) 25 MARKS

   a) Theorems of retention.
   b) Management of class II malocclusion.
   c) Difference between fix and removable appliances.
   d) Management of deep-bite.
   e) Enumerate different orthopedic appliances and their indications.
   f) RME.
   g) Undermine resorption.

3. Short question: 11 MARKS

   a) Open bite can be classified in to
   b) Types of frankle appliances
   c) Activator is introduced by----------
   d) Classify cleft lip and palate
   e) Define anchorage.
   f) What is baker’s anchorage?
   g) Enumerate different method of gaining space.
   h) What is different between cross bite and scissors bite.
   i) Following appliances used for RME
      1. Hyrax   2. coffin spring   3. jack screw   4. none of above
   j) Tween block introduced by----------
   k) Types of reverse pull head gear.
BP-5085
Seat No. 

Fourth Year B. D. S. Examination
May / June - 2014
Orthodontia

Time : 3 Hours] [Total Marks : 70

SECTION - I

1 Define Habits. Enumerate various classification of Habits. Discuss in detail about Mouth Breathing Habit. 14

2 Short notes : (any three) 15
(a) Scammon's Curve of growth
(b) Tweed Analysis
(c) Blood flow theory of Tooth movement
(d) Rapid Maxillary Expansion
(e) Ackerman-Profit system of classification.

3 Short answers : 6
(1) Father of modern orthodontics :
(2) Normal value of angle SNA : 
(3) Serial Extraction was introduced by :
(4) Define centre of Rotation.
(5) Eruption age of lower permanent canines is :
(6) Proximal stripping is one of the method of :

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[Contd...
SECTION - II

1 Define Interoceptive Orthodontics. Enumerate various procedures undertaken in interoceptive orthodontics. Discuss in detail about serial extraction.

2 Short notes : (any three)
   (a) Lip Bumper
   (b) Chin cup
   (c) Treatment options of cross bite
   (d) Skeletal V/s Dental Deep bite
   (e) Classification of cleft lip and palate

3 Short answers :
   (1) Twin Block was introduced by ............
   (2) Name any two methods of gaining space.
   (3) Define Retention.
   (4) Precision is also called as ............
   (5) Midline Diastema is spacing between ............
   (6) Class III elastics is placed between ............