

[RS 522] APRIL - 1993

FINAL B.D.S. DEGREE EXAMINATION

(Old Regulations)

ORTHODONTICS

Time : Three hours. Maximum : 100 marks.

Answer ALL questions.

Answer Sections A and B in separate answer books.

Draw diagrams wherever necessary.

SECTION A

1. Enumerate the various methods of measuring growth. Discuss in detail the clinical implications of growth and development in orthodontia. (20)

2. Write short notes on any six of the following :

- (a) Trajectories of force.
- (b) Leeway space of Nance.
- (c) Pernicious oral habits.
- (d) Simon's classification.
- (e) Incompetent lips.
- (f) Self supporting springs.
- (g) Solder and flux.

(6×5=30)

SECTION B

3. Classify orthodontic appliances. Discuss in detail the mode of action of activator. (20)

4. Write short notes on any six of the following :

- (a) Transient malocclusion.
- (b) Age factors in orthodontia.
- (c) Angle ANB
- (d) Serial extraction.
- (e) Gum pads.
- (f) Catalan appliance.
- (g) Bolton's Analysis.

(6×5=30)

Final B.D.S. DEGREE EXAMINATION

(Old Regulations)

Paper II - ORTHODONTICS

Time : Three hours Maximum : 100 marks

Answer All questions.

Answer Sections A and B in separate answer books

Draw diagram wherever necessary

SECTION—A

1. How are the orthodontic study models analysed to aid in treatment planning (20)
2. Write short notes on any SIX :
 - a) Growth spurts
 - b) Characteristics of Angle's Cl. II div. 2
 - c) Late incisor crowding
 - d) Midline diastema
 - e) Digital sucking habits
 - f) Stainless steel in orthodontic practice
 - g) 'Wits' analysis (6×5=30)

SECTION—B

1. Discuss the advantages, disadvantages and indications for using removable orthodontic appliances. Describe the construction and use of a removable appliance in the treatment of anterior cross bite of one or two teeth (20)
2. Write short notes on any SIX :
 - a) Preventive orthodontic procedures
 - b) Stationary anchorage
 - c) Blood flow theory to explain tooth movement
 - d) Distal shoe space maintainer
 - e) Fixed retainers
 - f) Activator appliance
 - g) C.S.F. procedure (6 x 5 = 30)

[SB 558]

APRIL - 1995

SECTION B

(5×6=30)

Fourth B.D.S. Degree Examination

(New Regulations)

Paper II - ORTHODONTICS

Time : Three hours

Maximum : 90 marks

Two and a half hours Sections A and B : 60 marks
for Sections A and B

Answer Sections A and B in separate answer books

Answer Section C in the answer sheet provided

Section A (2 X 15 = 30)

1. Describe the pre-natal & post natal growth of mandible
2. Define interceptive orthodontics. Discuss the indications, contra-indications, advantages and disadvantages of serial extractions. Describe one commonly used sequence of serial extractions.

3. Write short notes on :

- a) Andrew's keys to normal occlusion
- b) Bolton Index
- c) Piezo-electric theory in the biologic control of tooth movement
- d) Role of mouth breathing in the etiology of malocclusion
- e) Bionator appliance

[AK 628]

APRIL - 1996

Final B. D. S. Degree Examination

(Old Regulations)

Paper II - ORTHODONTICS

Time : Three hours

Maximum : 100 marks

Answer All questions

Answer Sections A and B in separate answer books

Draw diagrams wherever necessary.

SECTION— A

1. Discuss in detail Extractions in Orthodontics. (20)
2. Write short notes on : (6X5 = 30)
 - a) Tweed Triangle
 - b) Frontal Resorption
 - c) Headgears
 - d) Myofunctional appliances
 - e) Elgiloy wires
 - f) Angles classification.

SECTION - B

1. Discuss the various clasps used in orthodontics. (20)
2. Write short notes on : (6X5=30)
 - a) Y axis
 - b) Solder and flux
 - c) Optimal forces for different types of tooth movement
 - d) Fixed retainers
 - e) Digital sucking habits
 - f) Mouth breathing.

[AK 635] APRIL - 1996

Fourth B. D. S. Degree Examination

(New Regulations)

Paper II - ORTHODONTICS

Time : Three hours

Max : 90 marks

Two and a half an hour

Sec. A and B : 60 marks

for Sec. A and B

Answer section A and B in separate answer books.

Answer Section C in the answer sheet provided

SECTION A (2X15 = 30)

- 1. Explain Rapid Maxillary Expansion in detail.**
- 2. Write all you know about serial extraction.**

SECTION—B

(6×5 = 30)

3 Write short notes on :

- a) Shape memory alloys**
- b) Simons classification**
- c) Malocclusion**
- d) Activator appliance**
- e) Piezo electric Theory**
- f) Bionator appliance**

[PK 632]

OCTOBER - 1996

FINAL B.D.S. DEGREE EXAMINATION.

(Old Regulations)

ORTHODONTICS

Time : Three hours

Maximum : 100 marks

Answer Sections A and B in separate answer books.

SECTION A

1. Define Anchorage. Classify the various types with examples and write briefly about each one of them. (20)

2. Write short notes on : (6 x 5 = 30 marks)

- (a) Aims and objectives of Orthodontic treatment.
- (b) Pseudo Class III Malocclusion.
- (c) Moss's Functional Matrix Theory.
- (d) 18/8 Stainless Steel.
- (e) Adam's clasp and its modifications.
- (f) Angle ANB.

SECTION B

3. Discuss the Bio-mechanical principles involved in Orthodontic tooth movement and add a note on undermining resorption. (20)

[PK 632]

4. Write short notes on :

(6 x 5 = 30 marks)

- (a) Serial Extraction.
- (b) Causes of Relapse.
- (c) Spot welding.
- (d) Carpel Index.
- (e) Rapid Maxillary Expansion.
- (f) Mode of Action of Activator.

[PK 639] OCTOBER - 1996 Subject Code : 4117

FINAL B.D.S. DEGREE EXAMINATION.

(New Regulations)

ORTHODONTICS

Time : Three hours

Maximum : 90 marks

Two and a half hours

Sec. A & B : 60 marks

for Sec. A and Sec. B

Answer Sections A and B in separate answer books.

Answer Section C in the answer sheet provided.

SECTION A

**1. Define Retention and Relapse in relation to Orthodontics.
What are the causes for relapse and how would you prevent it?
(15)**

**2. What are the various methods of measuring growth and
discuss the importance of the knowledge of growth and devel-
opment in Orthodontics.
(15)**

SECTION B

3. Write short notes on : (6 x 5 = 30)

(a) Piezo-electric theory.

(b) Merits and demerits of Angle's classification

[PK 639]

(c) Cross Bite.

(d) Self supporting springs.

(e) Digital sucking habits.

(f) Kesling's Diagnostic Setup.

(MS 632)

OCTOBER - 1997

FINAL B.D.S. DEGREE EXAMINATION

(Old Regulations)

PAPER-II ORTHODONTICS

Time: Three hours

Max:100 marks

Answer Sections A and B in
separate answer books

SECTION-A

1. Define retention and relapse. Explain in detail the causes and methods to prevent relapse in orthodontics. (20)
2. Write short notes on: (6x5=30)
 - a) Tweed's triangle.
 - b) Functional matrix theory.
 - c) Undermining resorption.
 - d) Cleft lip.
 - e) Soldering and welding.
 - f) Wires used in orthodontics.

SECTION-B

3. Define orthodontic appliance. Classify them. State the differences between fixed and removable appliances. (20)
4. Write short notes on: (6x5=30)
 - a) Serial extraction.
 - b) Pernicious oral habits.
 - c) Moyers' mixed dentition analysis.
 - d) Cross-bite.
 - e) 18/8 stainless steel.
 - f) Piezo-electric theory.

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[MS 639] OCTOBER - 1997 Sub. Code : 4117

FINAL B.D.S. DEGREE EXAMINATION.

(New Regulations)

Paper II — ORTHODONTICS

Time : Three hours

Maximum : 90 marks

**Two and a half hours
for Sec. A and B**

Sec. A & B : 60 marks

Answer Sections A and B in separate answer books.

Answer Section C in the answer sheet provided.

SECTION A — (2 × 15 = 30 marks)

1. A eight year old male child is having one of the upper central incisor in anterior cross bite. What can be the probable aetiology? Design an appliance for the correction of the above case. What will be your advice to the patient?

Define orthodontic appliance. Classify them. State the difference between fixed and removable appliances.

SECTION B — (6 × 5 = 30 marks)

3. Write short notes on :

- (a) "Functional matrix" concept of growth.
- (b) Serial extraction.
- (c) Skeletal classification.
- (d) Retention in orthodontics.
- (e) Undermining resorption.
- (f) Pernicious oral habits.

[MS 646] OCTOBER - 1997 Sub. Code : 4117

FINAL B.D.S. DEGREE EXAMINATION.

(New/Revised Regulations)

Paper II — ORTHODONTICS

Time : Three hours

Maximum : 100 marks

Two and a half hours

Sec. A & B : 70 marks

for Sec. A and B

Answer Sections A and B in separate answer books.

Answer Section C in the answer sheet provided.

SECTION A — (2 × 15 = 30 marks)

- 1. Define Angle's class I crowding. State its clinical and occlusal features. Give step by step, the treatment planning of typical class I crowding.**
- 2. Define orthodontic appliance. Classify them. Describe the differences between fixed and removable appliances.**

SECTION B — (8 × 5 = 40 marks)

- 3. Write short notes on :**

- (a) Cantilever spring.**
- (b) Extra-oral anchorage.**
- (c) Heat treatment of orthodontic wire.**
- (d) Ectopic upper canines.**

[MS 646]

- (e) Functional matrix theory.**
- (f) Undermining resorption.**
- (g) Tweed's triangle.**
- (h) Serial extraction.**

[SV 639] APRIL - 1998 Sub. Code : 4117

FINAL B.D.S. DEGREE EXAMINATION.

(New Regulations)

Paper II — ORTHODONTICS

Time : Three hours Maximum : 90 marks

Two and a half hours Sec. A & Sec. B : 60 marks

for Sec. A and Sec. B Section C : 30 marks

Answer Sections A and B in separate answer books.

Answer Section C in the answer sheet provided.

SECTION A — (2 × 15 = 30 marks)

- 1. Define and classify Anchorage. Explain in detail the various types with examples.**

Describe in detail the post natal causes of malocclusion.

SECTION B — (6 × 5 = 30 marks)

Write short notes on :

- (a) Crossbite.**
 - (b) Thumb sucking.**
 - (c) Intra oral radiograph.**
 - (d) Canine retraction.**
 - (e) Causes of relapse in orthodontics.**
 - (f) 18/8 stainless steel.**
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[SV 646] APRIL - 1998 Sub. Code : 4117

FINAL B.D.S. DEGREE EXAMINATION.

(Old/Revised Regulations)

Paper II — ORTHODONTICS

Time : Three hours Maximum : 100 marks

Two and a half hours Sec. A & Sec. B : 70 marks

for Sec. A and Sec. B Section C : 30 marks

Answer Sections A and B in separate answer books.

Answer Section C in the answer sheet provided.

SECTION A — (2 × 15 = 30 marks)

1. Define Retention and Relapse. Explain in detail the causes and methods to prevent relapse in orthodontics.

Classify Class III malocclusion. Discuss in brief the management of Class III malocclusion.

SECTION B — (8 × 5 = 40 marks)

3. Write short notes on :
- (a) Surgical aids in orthodontics.
 - (b) Spheno occipital synchondrosia.
 - (c) Open bite.
 - (d) Growth spurt.
 - (e) Frankel's functional regulator.
 - (f) Palatally impacted canine.
 - (g) Merits and demerits of Angle's classification.
 - (h) Aims and objectives of orthodontic treatment.
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[SM 639] OCTOBER - 1998 Sub. Code : 4117

FINAL B.D.S. DEGREE EXAMINATION.

(New Regulations)

Paper II — ORTHODONTICS

Time : Three hours Maximum : 90 marks

Two and a half hours Sec. A & Sec. B : 60 marks

for Sec. A and Sec. B Section C : 30 marks

Answer Sections A and B in separate answer books.

Answer Section C in the answer sheet provided.

SECTION A — (2 × 15 = 30 marks)

1. Enumerate the various interceptive orthodontic procedures and describe in detail serial extraction procedure.
2. Define a habit. Discuss the etiology, clinical features and management of thumb sucking habits.

SECTION B — (6 × 5 = 30 marks)

3. Write short notes on :
 - (a) Soldering and welding
 - (b) Carpel Index
 - (c) Adam's clasp and modifications
 - (d) Aims and objectives of Orthodontic treatment
 - (e) Extra oral Anchorage
 - (f) Orthodontic management of Cleft lip and palate.
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[SM 646] OCTOBER - 1998 Sub. Code : 4117

FINAL B.D.S. DEGREE EXAMINATION.

(Old/Revised Regulations)

Paper II — ORTHODONTICS

Time : Three hours	Maximum : 100 marks
Two and a half hours	Sec. A & Sec. B : 70 marks
for Sec. A and Sec. B	Section C : 30 marks

Answer Sections A and B in separate answer books.

Answer Section C in the answer sheet provided.

SECTION A — (2 × 15 = 30 marks)

1. Enumerate the various methods of measuring growth. Discuss the clinical importance of the knowledge of growth and development in Orthodontics.
2. Define and classify Anchorage. Explain in detail the various types with examples.

SECTION B — (8 × 5 = 40 marks)

3. Write short notes on :
 - (a) Transient malocclusions
 - (b) Reciprocal anchorage
 - (c) Retention and relapse in Orthodontics
 - (d) Local causes of malocclusion
 - (e) Nitinol wires
 - (f) Expansion devices
 - (g) Myofunctional appliances.
 - (h) Direct Bonding.
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APRIL - 1999

[SG 646]

Sub. Code : 4117

FINAL B.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Paper II — ORTHODONTICS

Time : Three hours

Maximum : 100 marks

Two and a half hours

Sec. A & Sec. B : 70 marks

for Sec. A and Sec. B

Section C : 30 marks

Answer Sections A and B in separate answer books.

Answer Section C in the answer sheet provided.

Draw diagrams when necessary.

SECTION A — (2 × 15 = 30 marks)

1. What is arch length discrepancy? How will you assess the total discrepancy in a given adult patient? What methods can be used to correct arch length discrepancy?
2. What is the purpose behind classifying malocclusion? Enumerate the three basic types of malocclusions. What are the demerits of Angle's classification system? Describe Dewey-Anderson's modification of Angle's classification in detail.

SECTION B — (8 × 5 = 40 marks)

3. Write short notes on :
 - (a) Uses and limitations of Cephalometrics
 - (b) Cleft Lip and Palate

- (c) Circumferential Supracrestal Fibrotomy
 - (d) Uses of alloys in Orthodontics
 - (e) Orthopaedic forces in Orthodontics
 - (f) Ideal age for Orthodontic treatment
 - (g) Types of Labial bows
 - (h) Methods of gain
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[KA 646] OCTOBER - 1999 Sub. Code : 4117

FINAL B.D.S. DEGREE EXAMINATION.

Paper II — ORTHODONTICS

Time : Three hours Maximum : 100 marks

Two and half hours Sec. A & Sec. B : 70 marks

for Sec. A and Sec. B Section C : 30 marks

Answer Sections A and B in separate answer books.

Answer Section C in the answer sheet provided.

SECTION A — (2 × 15 = 30 marks)

- 1. Define orthodontic appliance. Classify orthodontic appliances. Explain in detail the components, indications and the various factors to be considered in designing a removable orthodontic appliance.**
- 2. Define optimum orthodontic force. Explain the biological reactions in response to the application of various types of orthodontic forces.**

SECTION B — (8 × 5 = 40 marks)

- 3. Write short notes on :**

- (a) Growth spurts**
- (b) Nickel titanium alloy**
- (c) Adams clasp and its modifications**
- (d) Reciprocal anchorage**

(e) Root resorption

(f) Tweeds triangle

(g) Pseudo class III malocclusion

(h) Study cast.

[KB 646] APRIL - 2000 Sub. Code : 4117

FINAL B.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Paper II — ORTHODONTICS

Time : Three hours Maximum : 100 marks

Two and a half hours Sec. A & Sec. B : 70 marks

for Sec. A and Sec. B Section C : 30 marks

Answer Section A and Section B in separate answer books.

Answer Section C in the answer sheet provided.

Draw diagrams when necessary.

SECTION A — (2 × 15 = 30 marks)

1. Classify diagnostic aids and write in detail about two cephalometric analysis of your choice used in orthodontics.

2. What are the theories of tooth movement? What factors affect the tooth movement. Give an account of tissue changes during orthodontic tooth movement.

SECTION B — (8 × 5 = 40 marks)

- 3. Write short notes on :**
- (a) Orthopaedic forces in orthodontics**
 - (b) Incisor liability**
 - (c) Factors affecting anchorage**
 - (d) Bolton's tooth size ratio analysis**
 - (e) Minor surgical procedures in orthodontic practice**
 - (f) Ackerman-Proffit classification of malocclusion**
 - (g) Significance of ANB angle**
 - (h) Soldering of orthodontic wires.**

[KC 646] OCTOBER - 2000 Sub. Code : 4117

FINAL B.D.S DEGREE EXAMINATION.

(Revised Regulations)

Paper II — ORTHODONTICS

Time : Three hours Maximum : 100 marks
Two and a half hours Sec. A & Sec. B : 70 marks
for Sec. A and Sec. B Section C : 30 marks

Answer Sections A and B in separate Answer Books.

Answer Section C in the Answer Sheet provided.

SECTION A — (2 × 15 = 30 marks)

1. (a) Define Retention.
(b) Discuss the reasons for relapse.
(c) Describe the mechanical aids to retention and add a note on Pericision. (2 + 6 + 7)
2. Describe and discuss in detail the various methods of Gaining space in Orthodontic treatment planning.

SECTION B — (8 × 5 = 40 marks)

3. Write short notes on :
(a) Sensitivity and stabilisation.
(b) Gum pads.
(c) Tweeds triangle.

- (d) Deep bite.
- (e) Condylar growth.
- (f) Functional matrix theory.
- (g) Effect of force on Pulpal tissue.
- (h) Reinforced Anchorage.