

**[KD 370]**                      **APRIL 2001**

**M.D.S. DEGREE EXAMINATION**

**Branch V — Orthodontics**

**Part II**

**Paper III — PRINCIPLES, PREVENTION AND  
TREATMENT**

**Time : Three hours                      Maximum : 100 marks**

**Answer ALL questions.**

1. Describe the various methods of torquing teeth, giving advantages and disadvantages of each method. (25)
  2. Compare and contrast anchorage in relation to Straight wire technique and Begg technique. (25)
  3. Write briefly on : (5 × 10 = 50)
    - (a) Secondary bone grafts in cleft lip and Palate cases
    - (b) Notching and binding in Archwires
    - (c) Roths concepts of functional occlusion
    - (d) Heat treatment of orthodontic wires
    - (e) Occlusal indices.
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NOVEMBER 2001

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M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch V — Orthodontics

Part II

Paper III — PRINCIPLES, PREVENTION AND  
TREATMENT

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Draw illustrative diagrams wherever necessary.

1. Clinical management of Cleft-Palate and Cleft-Lip patient in Orthodontic practice. (25)
  2. Management of posterior unilateral skeletal C1 II cross bite in an adult. (25)
  3. Write short notes on : (5 × 10 = 50)
    - (a) Brandict Technique
    - (b) Begg treatment during Mixed Dentition
    - (c) Limitations of Adult Orthodontic Treatment
    - (d) Recent Advances in Orthodontic Wires
    - (e) New trends in Orthodontic Bonding System.
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[KG 370]

MARCH 2002

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch V — Orthodontics

Part II

Paper III — PRINCIPLES, PREVENTION AND  
TREATMENT

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Draw illustrative diagrams wherever necessary.

1. Discuss the management of open bite cases in general. (25)
  2. Discuss the clinical management of impacted canines. (25)
  3. Write short notes on : (5 × 10 = 50)
    - (a) Reversepull headgear.
    - (b) Speed brackets.
    - (c) Alexander Disceplene.
    - (d) Saliva control during direct bonding.
    - (e) Philosophy of Begg.
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SEPTEMBER 2002

[KH 370]

M.D.S. DEGREE EXAMINATION

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Branch V — Orthodontics

Part II

Paper III — PRINCIPLES, PREVENTION AND  
TREATMENT

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Draw illustrative diagrams where necessary

1. Discuss the management of a developing Skeletal Open Bite Case. (25)
2. Role of analysis of Orofacial musculature and Jaw musculature in Orthodontic diagnosis and treatment planning. (25)

3 Write short notes on : (5 × 10 = 50)

- (a) SPEED Brackets
  - (b) Etching Techniques
  - (c) Light Cure Orthodontic Adhesives
  - (d) T M A wires
  - (e) Sterilization of Copper NiTi wires
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[KI 370]

APRIL 2003

Sub. Code : 2343

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch V — Orthodontics

Part II

Paper III — PRINCIPLES, PREVENTION AND  
TREATMENT

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Draw illustrative diagrams wherever necessary.

1. New approaches in Maxillary Molar Distalization. (25)
  2. What is Torque? Discuss different methods used for torqueing. Give your choice with reasons. (25)
  3. Write short notes on : (5 × 10 = 50)
    - (a) Recent improvements in straight wire technique
    - (b) Copper Nickel Titanium Expander
    - (c) Filo Appliance
    - (d) Invisible Retainers
    - (e) Air Abrasive Etching Technique.
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OCTOBER 2003

[KJ 370]

Sub. Code : 2343

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch V — ORTHODONTICS

Part II

Paper III — PRINCIPLES, PREVENTION AND  
TREATMENT

Time : Three hours

Maximum : 100 marks

Theory : Two hours and  
forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

M.C.Q. must be answered **SEPARATELY** on the  
answer sheet provided as per the instructions  
on the first page of M.C.Q. Booklet.

Answer ALL questions.

Draw suitable diagrams wherever necessary.

Essays :

(2 × 15 = 30)

1. Discuss the treatment options for sagittal corrections in non-compliant adolescent patient.
2. Describe the protocol and objectives for adult patient seeking Orthodontic treatment.

3. Write Short Notes on :

(10 × 5 = 50)

- (1) Enumerate the criterion for serial extractions.
- (2) Enumerate the applications of T.P.A. (Trans-Palatal Arches) in Orthodontics.
- (3) Describe role of soft tissue in Orthodontic treatment plan.
- (4) Describe flexible spiral wire retainer.
- (5) Write a note on Self Ligating Brackets.
- (6) Write on Indirect Bonding in Orthodontics.
- (7) Temporomandibular Dysfunction Syndrome.
- (8) 018 "Slot Verses 022" Slot PAE Brackets.
- (9) Opus closing loop.
- (10) Root resorption in orthodontics.

**APRIL 2004**

**[KK 370]**

**Sub. Code : 2343**

**M.D.S. DEGREE EXAMINATION.**

**(Revised Regulations)**

**Branch V — ORTHODONTICS**

**Part II**

**Paper III — PRINCIPLES, PREVENTION AND  
TREATMENT**

**Time : Three hours**

**Maximum : 100 marks**

**Theory : Two hours and  
forty minutes**

**Theory : 80 marks**

**MCQ : Twenty minutes**

**MCQ : 20 marks**

**Answer ALL questions.**

**Draw suitable diagrams wherever necessary.**

**A. Essay :**

**(2 × 15 = 30)**

**(1) Describe the process of guidance of the  
developing occlusion.**

**(2) Write an essay on "Lingual Orthodontics".**

**B. Short notes :**

**(10 × 5 = 50)**

**(1) Describe modified Thomas technique for  
indirect bonding.**

**(2) Write a short note on the twin block  
appliance.**

**(3) Discuss "Ballista spring".**

**(4) Give an outline of "envelope of discrepancy".**

**(5) What is permanent retention?**

**(6) What are pulse straightened wires?**

**(7) Discuss MAA.**

**(8) Write a short note on "Pendulum appliance".**

**(9) Write a note on "implants as sources of  
orthodontic anchorage".**

**(10) What is a three piece intrusion arch and how  
does it act?**

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II. Write short notes on :

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### Paper III — PRINCIPALS, PREVENTION AND TREATMENT

**Time : Three hours**

Maximum : 100 marks

Theory : Two hours and  
forty minutes

**Theory : 80 marks**

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL the questions.

Draw suitable diagrams wherever necessary.

I. Essay Questions :

**(2 × 15 = 30)**

(1) Mode of action of functional appliances.

(2) Elaborate stage III in Tip-Edge.

(a) P.G. spring

(b) Implants as anchorage

(c) Prostaglandins in tooth movement

(d) Churro jumper

(e) KISS principal of Wick Alexander

(f) Poly Carbonate brackets

(g) Seventh generation bonding agents

(h) Lower incisor stability in post orthodontic treatment

(i) Distraction osteogenesis

(j) Pont's index.

**FEBRUARY 2005**

**[KM 370]**

**Sub. Code : 2343**

**M.D.S. DEGREE EXAMINATION.**

(Revised Regulations)

**Branch V — Orthodontics**

**Part II**

**Paper III — PRINCIPALS, PREVENTION AND  
TREATMENT**

**Time : Three hours**

**Maximum : 100 marks**

**Theory : Two hours and  
forty minutes**

**Theory : 80 marks**

**M.C.Q. : Twenty minutes**

**M.C.Q. : 20 marks**

**Answer ALL the questions.**

**Draw suitable diagrams wherever necessary.**

**I. Essay questions:**

**(2 × 15 = 30)**

(1) Class II elastics and premolar extractions as causative factors of TMJ disorders.

(2) Explain the causes of root resorption in orthodontics.

**II. Write short notes on :**

**(10 × 5 = 50)**

(a) Electro thermal Debracketing

(b) TMA wires

(c) Combination anchorage

(d) Fixed retainers

(e) Prostaglandins

(f) Motivation for adult treatment

(g) Torquing auxiliaries in the 3<sup>rd</sup> stage of Begg treatment.

(h) Twin block appliance

(i) Midline discrepancies

(j) Long Face Syndrome.

SEPTEMBER 2006

[KP 370]

Sub. Code : 2343

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch V — Orthodontics

Part II

Paper III — PRINCIPLES, PREVENTION AND  
TREATMENT

Time : Three hours

Maximum : 100 marks

Theory : Two hours and  
forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay Questions :

(1) Compare friction and frictionless mechanics and add a note on space closure in straight wire appliance. (20)

(2) Enumerate the various fixed functional appliances and discuss in detail about any one. (15)

(3) Explain the causes of root resorption in Orthodontics. (15)

II. Write short notes on :

(6 × 5 = 30)

(a) Deleterious effects of orthodontic force on teeth.

(b) Beta-titanium wires.

(c) Lingual appliance.

(d) Deep bite.

(e) Keys to retention.

(f) Extra oral anchorage.

**MARCH 2007**

**[KQ 370]**

**Sub. Code : 2343**

**M.D.S. DEGREE EXAMINATION.**

**(Revised Regulations)**

**Branch V — Orthodontics**

**(For candidates admitted from the academic year  
1993–94 onwards)**

**Paper III — PRINCIPLES, PREVENTION AND  
TREATMENT**

**Time : Three hours**

**Maximum : 100 marks**

**Theory : Two hours and  
forty minutes**

**Theory : 80 marks**

**M.C.Q. : Twenty minutes**

**M.C.Q. : 20 marks**

**Answer ALL questions.**

**Draw suitable diagrams wherever necessary.**

**I. Essay :**

- 1. Discuss the various debonding techniques  
compare and contrast. (20)**
- 2. Write about ceramics and orthodontics. (15)**
- 3. Discuss the role of orthodontist in cleftlip/patule.  
(15)**

**II. Short notes :**

**(6 × 5 = 30)**

- (a) V bend mechanics.**
- (b) T Loop.**
- (c) Balista spring.**
- (d) One couple system in orthodontics.**
- (e) Implants in orthodontics.**
- (f) Biomechanics of incisor intrusion.**