Nootan Dental College & Hospital, Visnagar
First Year B.D.S. 1st Internal Examination
Dental Anatomy & Dental Histology

Time: 2 Hours] [Total Marks: 40

Instructions: 1. Figures to the right indicate full marks.

   2. Draw diagrams where necessary.

   3. Write legibly.

1. Describe in detail about: (8X2=16)
   a. Bell stage of tooth development
   b. Morphology of maxillary lateral incisor

2. Short Notes (Write any three): (5X3=15)
   a. Notations in dentistry
   b. Surface structures of enamel
   c. Differences between primary & secondary dentition
   d. Buccal & Lingual aspect of maxillary canine

3. Answer very shortly: (9X1=9)
   a. Define line angle and point angle.
   b. What are succedaneous teeth?
   c. Which is the smallest tooth in the oral cavity?
   d. What is Gnarled enamel?
   e. What is the role of Meckel’s cartilage?
   f. Chronology of mandibular canine.
   g. Define Cusp & Fossa.
   h. What is emrassure? Enumerate its types.
   i. Chemical composition of enamel.
NOOTAN DENTAL COLLEGE & HOSPITAL, VISNAGAR
FIRST B.D.S.
PRELIMINARY EXAMINATION- May 2011
Oral & Dental Anatomy, Physiology And Histology
Time : 3 Hours] [Max. Marks : 100

Instructions :
a. Write each section in separate answer book.
b. Figures to the right indicate full Marks.
c. Draw diagrams where necessary.
d. Write legibly.

SECTION-I

1. What is the relationship between dentin & pulp? Describe the cellular elements of pulp. (3+12=15)

2. Write long notes on (Any Four) (5X4=20)
   a. Nonkeratinocytes of Gingiva
   b. Cellular & Acellular cementum
   c. Enamel spindles, tufts & lamellae
   d. Occlusal aspect of permanent mandibular 2nd premolar
   e. Bell stage of tooth development

3. Write short notes on (Any Three) : (3x3=9)
   a. Embarrasses
   b. Facial aspect of Permanent Maxillary lateral incisor
   c. Circumvallate Papilla
   d. Incremental lines of dentin

4. Answer very shortly : (1x6=6)
   a. What are cementicles?
   b. What is preruptive movement?
   c. What is the function of myoepithelial cells?
   d. Enumerate muscles of mastication.
   e. What is primary dentin & secondary dentin?
   f. Which root canals are present in permanent mandibular 1st molar?

[P.T.O.]
1. Long essay
   a. Describe in detail the life cycle of ameloblasts.
   b. Describe in detail about maxillary permanent right canine.

2. Short essay (any four)
   a. Zones of pulp
   b. Occlusal surface of maxillary first premolar
   c. Theories of eruption
   d. Principal fibers of periodontal ligament
   e. Bell stage of tooth development

3. Short answers
   a. Enamel cord and Enamel Knot
   b. Plexus of Rashkow
   c. Denticles
   d. Enumerate cemeto enamel junction
   e. Bundle bone
   f. Epithelial rests of Malassez
   g. Functions of periodontal ligament
   h. Age changes in pulp
   i. Tooth with longest crown
      1. 13, 23
      2. 53, 63
   j. Canals of Hirshfeld and Zuckerkandl.
1. Define and classify oral mucous membrane. Describe in detail the histology of tongue.

2. Hertwig's epithelial root sheath
3. Hypomineralised zones in enamel
4. Zones of pulp
5. Principal fibers of periodontal ligament
6. Functions of saliva
7. Ground sections

8. Dental sac
9. Tome's process
10. Which part of dentin is not mineralised
    a. Peritubular dentin
    b. Osteodentin
    c. Intertubular dentin
    d. Lamina limitans
11. Pulp is formed from
    a. Inner enamel epithelium
    b. Dental papilla
    c. Outer enamel epithelium
    d. Dental sac
12. Epithelial cells seen in periodontal ligament are
    a. Oral epithelium
    b. Outer enamel epithelium
    c. Hertwig's epithelial root sheath
    d. Stratum intermedium
13. Osteoclasts are
    a. Bone forming cells
    b. Progenitor cells
    c. Bone resorbing cells
    d. All of the above
14. Sulcular epithelium is
    a. Orthokeratinised
    b. Non keratinized
    c. Parakeratinised
    d. Simple squamous
15. Myoepithelial cells
16. Gubernacular cord
17. Synovial joint
SECTION B

Long essay: 1 x 15 = 15

1. Describe in detail the morphology of permanent maxillary canine.

Short essay (any 5): 5 x 5 = 25

2. Tooth numbering system
3. Difference between maxillary I and II premolar
4. Difference between permanent maxillary central and lateral incisor
5. Spillway space
6. Occlusal aspect of permanent maxillary I molar.
7. Occlusion in deciduous dentition.

Short answers: 10 x 1 = 10

8. Dental formula
9. Pulpal anatomy of permanent mandibular first molar.
10. Lingual fossa
11. Name the cusps in permanent mandibular first molar
12. Leeway space of Nance
13. Eruption of permanent mandibular canine
   a. 4 – 5 yrs
   b. 8-9 yrs
   c. At birth
   d. 9 – 10 yrs
14. First permanent tooth to erupt
   a. Maxillary Central incisor
   b. Maxillary first molar
   c. mandibular Central incisor
   d. mandibular first molar
15. Parotid duct is
   a. Bartholin duct
   b. Stensen’s duct
   c. Warton’s duct
   d. Duct of Rinvius
16. Maxillary sinus opens into
   a. Superior meatus
   b. Inferior meatus
   c. middle meatus
   d. sphen-o-ethmoidal recess
17. Hormones involved in calcium metabolism
   a. Parathormone
   b. Vit D3
   c. calcitonin
   d. all of the above.
SECTION

Write legibly. (f) Write legibly. (g) Draw diagrams where necessary. (h) Figures to the right indicate full marks. Books.

Instructions: (1) Write two sections in separate answer books. (2) Write two sections in a separate answer book. (3) Write the diagrams wherever necessary. (4) Draw the diagrams where necessary.

Time: 3 Hours. [Total Marks: 100]

Histology
Oral & Dental Anatomy, Physiology & Embryology
Second Year B. D. S. Examination
May / June - 2008
Second Year B. D. S. Examination

DF-5733

Total No. 18

1. Write short notes on: Any three.

2. Enumerate hypothalamic areas of brain. Describe. 16

3. Write short notes: Any three.

4. +

5. Describe with diagrams the detailed morphology. 16

D-8078

1. Cellular cementum.

2. Difference between primary and permanent.

3. Pubic bone.

4. Taste buds.

5. Write short notes: Any three.

D-8078

1. Teeth,

2. Difference between early and advanced Bell.

3. Enumerate morphological stages of tooth.


5. Describe with diagrams the detailed morphology. 16

SECTION

1. Write legibly.

2. Necessary.

3. Write the diagrams wherever necessary.

4. Draw the diagrams wherever necessary.

5. Figures to the right indicate full marks.
II - SECTION

1. Describe with diagrams the detailed morphology of Permanent Mandibular 1st Molar.

2. Write short notes on (any three):
   - Classify Oral Mucous Membrane. Describe Gingivae.
   - Write short notes on (any three):
     - Tooth numbering systems.
     - Shedding
     - Sharpey's Fibers
   - Functions of Saliva


4. Compare and contrast the Permanent Maxillary and Mandibular Central Incisors.

5. Diagrams
   - Incisional Lines of Dental
   - Functions of Oral Mucosa
   - Age changes in Dentin

6. Ground section.
SECTION I

Write short notes (any three)

1. permanent maxillary first molar
2. describe with diagram the occlusal surface of

SECTION II

Instructions: (1) Write two sections in separate answer.

Time: 3 Hours

Total Marks: 70

ORAL & DENTAL ANATOMY, PHYSIOLOGY & HISTOLOGY

FIRST YEAR B.D. S. EXAMINATION

September/October - 2009

S. EXAMINATION

AT-228

Seat No.
(iii) Which of the following premolar has a non-functional lingual cusp?

(a) None of the above
(b) ABDE
(c) ABCE
(d) BADCE

(v) Order of eruption of primary (Deciduous) teeth
(a) ABCE
(b) ABDE
(c) ABCE
(d) ABDE

(vi) Stratum Intermedium first appear during
(a) Ache
(b) Ache
(c) Ache
(d) Ache

(vii) Order of eruption of primary (Deciduous) teeth
(a) ABCE
(b) ABDE
(c) ABCE
(d) ABDE

(viii) Basically TMJ is
(a) Hinge and axis joint
(b) Synovial joint
(c) Joint
(d) Joint

(ix) When two teeth contact, they form which of the following embrasures
(a) Upper first
(b) Upper second
(c) Lower first
(d) Lower second

(x) Facial
(a) Occlusal and Cervical
(b) Lingual
(c) Cervical
(d) None of the above

(xi) Write short notes: (any three)
(a) Dentinal tubules
(b) Cellulor Cementum
(c) Bundle Bone
(d) Embrasures

(xii) Write short notes: (any three)
(a) Dentinal tubules
(b) Cellulor Cementum
(c) Bundle Bone
(d) Embrasures

(xiii) Which of the following is not the principal fibre group of the periodontal ligament?
(a) Alveolar crest
(b) Transseptal
(c) Horizontal
(d) Root

(xiv) Which of the following is lost maximum when decalcified for histological specimen and appear clear?
(a) Enamel
(b) Dentin
(c) Root
(d) Bone

(xv) Describe in detail the morphological and histological differences between primary (deciduous) and permanent teeth.
MAU-4726  Seat No.

Second Year B.D.S. Examination
March/April - 2009
Oral & Dental Anatomy, Physiology & Histology

Time : 3 Hours] [Total Marks : 80

Instructions : (1) Write two sections in a separate answer books.
(2) Figures to the right indicate full Marks.
(3) Draw diagrams where necessary.
(4) Write legibly.

SECTION - I

1 Compare and Contrast the morphology of Permanent Maxillary Central and Lateral Incisors. 14

2 Classify Oral mucosa. Describe Keratinized mucosa in detail with diagrams. 14

3 Write short notes (any three): 12
(a) Shedding of teeth
(b) Histology of Parotid gland
(c) Amorphous calcification
(d) Hypercementosis.
SECTION - II

4. Describe with diagrams the detailed morphology of Maxillary tooth with five cusps.


6. Write short notes (any three):
   (a) Importance of deciduous dentition
   (b) Odontoblasts
   (c) Cap Stage
   (d) Ground Section of a tooth.
First Year B. D. S. Examination
May/June - 2009
Oral & Dental Anatomy, Physiology & Histology

Time : 3 Hours] [Total Marks : 70

Instructions : (1) Write each section in separate answer book.
(2) Figures to the right indicate full marks.
(3) Draw diagrams where necessary.
(4) Write legibly.

SECTION - I

1. Describe in detail about the structural components of enamel. 10

2. Write short notes on : (any three) 5×3=15
   (a) Occlusal aspect of Maxillary 1st Molar
   (b) Histology of Parotid gland
   (c) Specialized mucosa
   (d) Secondary dentin
   (e) Bell stage of tooth development.

3. Answer very shortly : 10×1=10
   (a) Define lobe and tubercle.
   (b) What are striated ducts?
   (c) Define Occlusion.
   (d) What is true pulp stone?
   (e) What are Merkel's cells?
   (f) Chronology of permanent mandibular 1st premolar.

MN-4703] 1 [Contd...
(g) What is Col?
(h) Which muscles are responsible for jaw opening?
(i) What is oral cavity proper?
(j) Which are the formative cells of dental pulp?

SECTION - II

4 Describe in detail about the morphology of permanent maxillary cuspids with diagrams.  

10

5 Write short notes on: (any three)  

(a) Buccal and lingual aspects of mandibular 1st premolar
(b) Development of mandible
(c) Principal fibres of periodontal ligament
(d) Tooth numbering systems
(e) Hard Palate.

5×3=15

6 Answer very shortly/fill in the blanks:  

(a) Define Edge and Ridge.
(b) Which root canals are present in tooth no.19 (Universal)?
(c) What is the function of odontoclasts?
(d) Which staining procedure is most commonly used in tissue processing?
(e) What is Granular layer of Tomes?
(f) Incremental lines of dentin are known as ________.
(g) Mixed dentition period is between _______ and _______ years.
(h) Which are the different zones of pulp?
(i) Smallest tooth in oral cavity is _________.
(j) Define accessory canal.
AP-5251  Seat No.

Second Year B. D. S. Examination
September / October – 2009
D. A. D. H.

Time : 3 Hours]  [Total Marks : 80

Instructions : (1) Answers of two sections to be written in separate answer book.
(2) Figures to the right indicate full marks.
(3) Write legibly.
(4) Draw neat diagrams wherever necessary.

SECTION - I

1  Enumerate the developmental stages of Tooth.  14
   Write in detail about Bell Stage.

2  Describe the detailed anatomy of Maxillary Canine with diagrams.  14

3  Short notes : (any three)  12
   (a) Tooth Numbering Systems
   (b) Functions of Saliva
   (c) Histology of Gingiva
   (d) Embrassures.

AP-5251]  1  [Contd...
SECTION - II

4 Describe in detail the histology of Pulp. 14

5 Write in detail the differences between Deciduous and Permanent dentition. 14

6 Short notes: (any three) 12
   (a) Occlusal Aspect of Maxillary 1st Premolar
   (b) Occlusion
   (c) Dead Tracts
   (d) Hunter-Schreger bands.
Instructions:  
(1) Write each section in separate answer book. 
(2) Figures to the right indicate full marks. 
(3) Draw diagrams where necessary. 
(4) Write legibly.

SECTION - I

1. Describe in detail about the morphology of permanent maxillary 1st premolar with diagrams. 

2. Write short notes on: (any three) 5x3=15
   (a) Denticles 
   (b) Histology of alveolar bone 
   (c) Occlusal aspect of Mandibular 2nd Molar 
   (d) Enamel tufts and spindles 
   (e) Reduced enamel epithelium.

3. Answer very shortly: 10x1=10
   (a) Chronology of permanent maxillary 2nd molar. 
   (b) What is Tomes' process? 
   (c) Which muscles are responsible for jaw closing? 
   (d) What is oral cavity proper? 
   (e) What are intercalated ducts? 
   (f) Define secondary dentin.
(g) What is Meckel's cartilage?
(h) What is shedding?
(i) Define edge and ridge.
(j) What are Hunter Schreger bands?

SECTION - II

4 Describe in detail about the structural components of pulp. 10

5 Write short notes on: (any three) 5x3=15
(a) Occlusal aspect of mandibular 2nd premolar
(b) Cap stage of tooth development.
(c) Histology of buccal mucosa.
(d) Importance of deciduous teeth.

6 Answer shortly: 5x2=10
(a) Blood and Nerve supply of Maxillary 1st Molar
(b) Enumerate theories of pain transmission through dentin
(c) Stratum granulosm
(d) Clinical considerations of cementum
(e) Enumerate principal fibres of periodontal ligament.
SECTION - I

1. Describe Eruption and Shedding of Teeth: 14
   (all stages)

2. Write short notes: (any three) 15
   (a) Difference between Deciduous and Permanent Dentition
   (b) Tooth numbering System in Dentistry
   (c) Clinical Consideration of Enamel
   (d) Role of periodontal Ligament in Oral Health.

3. Answer very shortly: 6
   (i) What is Gubernacular canal?
   (ii) Nerve supply of Tongue.
   (iii) What is the nerve supply of Maxillary First Molar?
   (iv) What is Enamel Lamellae?
   (v) What is Amorphous Calcification?
   (vi) Enumerate principal fibers of Periodontal Ligament.
SECTION - II

4 Classify Oral Mucosa. Describe in detail about Dorsum of Tongue.

5 Write short notes: (any three)
   (i) Occlusion
   (ii) Hunter-Schreger bands
   (iii) Histology of Sublingual Gland
   (iv) Functions of Saliva

6 Answer very shortly:
   (i) Define Embarrass
   (ii) What is Lateral Canal?
   (iii) What are Tonofilaments?
   (iv) What are Denticles?
   (v) What is Alveolar bone proper?
   (vi) What is Red zone of lip?
First Year B. D. S. Examination
April / May - 2010
Dental Anatomy &
Oral Histology including Embryology

Time : 3 Hours] [Total Marks : 70

SECTION - I

1 Describe Eruption and Shedding of Teeth : 14
(all stages)

2 Write short notes : (any three) 15
(a) Difference between Deciduous and Permanent
Dentition
(b) Tooth numbering System in Dentistry
(c) Clinical Consideration of Enamel
(d) Role of periodontal Ligament in Oral Health.

3 Answer very shortly : 6
(i) What is Gubernacular canal?
(ii) Nerve supply of Tongue.
(iii) What is the nerve supply of Maxillary First
Molar?
(iv) What is Enamel Lamellae?
(v) What is Amorphous Calcification?
(vi) Enumerate principal fibers of Periodontal
Ligament.
SECTION-II

4 Classify Oral Mucosa. Describe in detail about Dorsum of Tongue.

5 Write short notes: (any three)
(i) Occlusion
(ii) Hunter-Schreger bands
(iii) Histology of Sublingual Gland
(iv) Functions of Saliva

6 Answer very shortly:
(i) Define Embrassure
(ii) What is Lateral Canal?
(iii) What are Tonofilaments?
(iv) What are Denticles?
(v) What is Alveolar bone proper?
(vi) What is Red zone of lip?
SECTION - I

1 Describe in detail about the morphology of Permanent Maxillary Right Lateral Incisor with diagrams. 10

2 Write notes on: (any two) 5x2=10
   (a) Histology of sublingual gland.
   (b) Advanced Bell stage.
   (c) Cellular and Acellular Cementum.

3 Write short notes on: (any three) 3x3=9
   (a) Circumvallet papilla
   (b) Clinical considerations of pulp.
   (c) Importance of primary teeth.
   (d) Tertiary Dentin.

4 Answer shortly 1x6=6
   (a) Define cusp and Fossa.
   (b) Which teeth are present in 8-9 year old child?
   (c) What is Tome's Process?
   (d) What is the function of Reduced Enamel Epithelium?
   (e) Which cusps are present in permanent maxillary 1st Molar?
   (f) What are enamel tufts and spindles?
SECTION - II

5 What is periodontium? Describe about non-cellular structures of periodontal ligament.

6 Write notes on: (any two) \(5 \times 2 = 10\)
   (a) Occlusal aspect of mandibular 1st Molar
   (b) Shedding
   (c) Physical and chemical characteristics of Enamel.

7 Write short notes on: (any three) \(3 \times 3 = 9\)
   (a) Curve of spec
   (b) Incremental lines of Enamel
   (c) Functions of Oral Mucosa
   (d) Alveolar Bone proper

8 Answer very shortly: \(1 \times 6 = 6\)
   (a) What are Merkel’s cells?
   (b) Which cells are responsible for bone remodelling?
   (c) What are Rests of Malassez?
   (d) Which tooth is having longest crown?
   (e) Define accessory canal.
   (f) Define Embrassures.
PF-5503  Seat No._____
First Year B. D. S. Examination
June/July - 2011
Dental Anatomy, Histology & Embryology

Time : 3 Hours] [Total Marks : 70

SECTION - I

1 Describe in detail about structural components of dental pulp. 10

2 Write notes on : (any two) 2x5=10
(a) Ground section
(b) Histology of Gingiva
(c) Bell stage of tooth development.

3 Write short notes on : (any three) 3x3=9
(a) Hunter Shreger Bands
(b) Cementogenesis
(c) Denticles
(d) FDI tooth numbering system.

4 Answer shortly : 6x1=6
(a) What is deglutition ?
(b) What is neonatal line ?
(c) What is oblique ridge ?
(d) Define interglobular dentin.
(e) Which are the organic components of dentin ?
(f) Which are the teeth having 3 cusps ?
SECTIOn - II

5 Compare and contrast permanent maxillary and mandibular canine.

6 Write notes on: (any two) \[5 \times 2 = 10\]
   (a) Principal fibers of periodontal ligament
   (b) Occlusal aspect of maxillary 1st premolar
   (c) Histology of Tongue.

7 Write short notes on: (any three) \[3 \times 3 = 9\]
   (a) Root morphology of mandibular 1st molar
   (b) Enamel lamellae and tufts
   (c) Secondary dentin
   (d) Serous Acini.

8 Answer shortly: \[1 \times 6 = 6\]
   (a) Enumerate muscles of mastication
   (b) Define eruption
   (c) Which type of epithelium is present in maxillary sinus?
   (d) What is the cuspal morphology of deciduous maxillary molars?
   (e) What is occlusion?
   (f) What is odontoclast?
First Year B. D. S. Examination
October/November – 2012
Dental Anatomy & Histology

Time: 3 Hours
[Total Marks: 70]

SECTION - I

1 Classify oral mucous membrane and describe in detail the gingival mucous membrane.

2 Short notes: (any three)
   (a) Morphology of permanent maxillary canine
   (b) Ameloblast
   (c) Sharpeys fibres
   (d) Reparative dentin
   (e) Inclined planes.

3 (a) What is the rate of reparative dentin formation after tooth restoration?
   (i) 4 microns per day
   (ii) 6 microns per day
   (iii) 8 microns per day
   (iv) 10 microns per day.

   (b) Which deciduous teeth is most often over retinol?
      (i) Central incisor
      (ii) Lateral incisor
      (iii) Premolar
      (iv) Molar.

   (c) The parotid gland duct opens into the oral cavity at the position___________.

   (d) The closest tooth to maxillary sinus is___________.

   (e) In the human body the hardest calcified tissue is___________.

   (f) What is secondary dentin?

JG-653] 1 [Contd...
SECTION - II

4 Describe in detail morphological and histological difference between deciduous and permanent teeth.

5 Short notes : (any three)
   (a) Cusp of carabelli
   (b) Occlusal aspects of maxillary 2nd premolar.
   (c) Describe various tooth numbering systems
   (d) Cell rests of malasses
   (e) Hunter-schreger bands.

6 (a) Which of the following structures of tooth has maximum fluoride content ?
   (A) Alreolah bone
   (B) Cementum
   (C) Dentin
   (D) Enamel

(b) The epithelium of oral mucous membrane is :
   (A) Stratified columnar
   (B) Simple squamous pit
   (C) Stratified squamous

(c) Which type of collagen is absent in normal adult dentin ?
   (A) Type I
   (B) Type II
   (C) Type III
   (D) All of the above

(d) The dentin is formed slight before enamel or slight after enamel

(e) The salivary glands are exocrine or endocrine

(f) The nerves that enter the pulp are myclinated or Non-myclinated.
K-9703

First Year B. D. S. Examination
June / July - 2012
Dental Anatomy & Histology

Time : 3 Hours] [Total Marks : 70

SECTION - I

1 Describe the method of preparation of ground section of a tooth for microscopic examination. 14

2 Short notes : (any three) 15
   (a) Frozen section
   (b) Enamel spindle
   (c) Embrasures
   (d) Nerve supply of maxillary molar
   (e) Contact points.

3 (a) What is incisal liability ? 6
   (b) Define cingulum.
   (c) Write dental formulas for primary teeth in humans.
   (d) Enumerate muscles of mastication.
   (e) The dentin that immediately surrounds the dentinal tubules is :
      (a) Peritubular dentin
      (b) Intertubular dentin
      (c) Predentin
      (d) First formed dentin
   (f) How many pulp organs are normally found in every person ?
      (a) 22
      (b) 32
      (c) 52
      (d) 62

K-9703] 1 [Contd...
SECTION - II

4 Describe with diagram morphology of permanent maxillary first molar.

5 Short notes: (any three)
   (a) Dead tracts
   (b) Bundle bome
   (c) Test buds
   (d) Buccal smear
   (e) Saliva.

6 (a) Define Mamelons.
   (b) Write sequence of eruption of primary teeth
   (c) Eruption age of primary maxillary canine is
   (d) An irregular depression or concavity is defined as
   (e) Which vitamin is essential for collagen synthesis?
      (a) Vitamin A
      (b) Vitamin B
      (c) Vitamin C
      (d) Vitamin D
   (f) The droplets of enamel found in area of furcation of the roots of permanent molars are
      (a) Enamel pearls
      (b) Enamel cracks
      (c) Enamel organ
      (d) Enamel spindles.
First Year B. D. S. Examination
June - 2013
Dental Anatomy

Time : 3 Hours] [Total Marks : 70

SECTION - I

1 Describe the morphology of permanent mandibular central incisor. 14

2 Short notes : (any three) 15
   (a) Functions of periodontal ligament
   (b) Bud stage of tooth development
   (c) Occlusal surface of permanent maxillary first premolar
   (d) Cementum
   (e) Tooth numbering system of permanent teeth.

Short answer : 6
   (a) Contact point
   (b) Lamina dura
   (c) Number of roots in permanent maxillary molar
   (d) Dead tracts
   (e) Enamel is vital or not
   (f) Dental sac.

K-4153] 1 [Contd...
SECTION - II

4 Describe oral mucous membrane. 14

5 Short notes (any three):
   (a) Ground section
   (b) Bell stage of tooth development
   (c) Occlusal surface of permanent mandibular and premolar
   (d) Difference between primary and permanent teeth
   (e) Parotid gland.

6 Short answer:
   (a) Rate ridges or Rate pegs
   (b) Neonatal line
   (c) Primary dentin
   (d) Osteoclast
   (e) Dental Lamina
   (f) Peritubular dentin.

K-4153] 2 [300]
SECTION-I

1. Describe the morphology of permanent maxillary central incisor. 14

2. Short notes: (any three) 15
   (1) Cells of periodontal ligament
   (2) Denticles
   (3) Cap stage of tooth development
   (4) Occlusal surface of permanent mandibular first molar
   (5) Functions of pulp.

3. Short answers: 6
   (1) Mamelons.
   (2) Filliform papillae.
   (3) Transcortical fibers of PDL.
   (4) Numbers of roots in permanent maxillary second molar ________ .
   (5) Secondary dentin.
   (6) Of four layers of epithelium which layer is adjacent to connective tissue:
      (i) Granulosum
      (ii) Kerneum
      (iii) Basal
      (iv) Spinosum.

GBT-5613] 1 [Contd...
SECTION-II

1 Describe in detail stages of tooth development. 14

2 Short notes: (any three) 15
   (1) FDI notation
   (2) Difference between permanent maxillary and mandibular canines
   (3) Alveolar bone
   (4) Root sheath of heartwig's
   (5) Functions of teeth.

3 Short answer:
   (1) Cingulum.
   (2) Taste bud
   (3) Tertiary dentin.
   (4) Cusp.
   (5) Number of root canals in permanent mandibular second molar ________.
   (6) Hard palate is
       (i) Non keratinized
       (ii) Para keratinized
       (iii) Ortho keratinized
       (iv) All of above.
NARSHINHBHAI PATEL DENTAL COLLEGE AND HOSPITAL
VISNAGAR
DEPT. OF ORAL PATHOLOGY AND MICROBIOLOGY
1 YEAR MID TERM EXAMINATION TOTAL-100MARKS
SECTION A-50 MARKS

Long essay 1X10=10 marks
1. Describe Maxillary canine with neat diagrams

Short essay (answer any 6) 6X5=30 marks
1. Describe the FDI tooth numbering System
2. Define - a) Fossa  b) Point angle  c) Cusp  d) Groove  e) Cingulum
3. Differences between the anatomy of Maxillary 1\textsuperscript{st} and 2\textsuperscript{nd} premolar
4. Describe the occlusal surface of the mandibular 2\textsuperscript{nd} premolar
5. Describe the side identifying features of maxillary Central incisor
6. Chronology of primary and permanent teeth
7. Non keratinocytes

Short answers 10X1=10 marks
1) What are mamalons
2) How many root canals does maxillary second premolar have?
3) How to write mandibular right first premolar in Zsigmondy/Palmer system
4) What is developmental groove?
5) What is a cronal pulp?
6) Arch trait
7) Most widely accepted tooth numbering system?
a) Zsigmondy/Palmer b) FDI c) Universal d) All of the above
8) How many cusps does a mandibular first premolar have?
a) 1 b) 2 c) 3 d) 4
9) Dental formula for permanent teeth
10) How many teeth are present in a deciduous Maxillary arch?
a) 10 b) 5 c) 20 d) 16
Section II

Long essay  
1X10=10 marks

1) Describe tooth developmental stages with neat diagramme

Short essay  (answer any 6)  6X5=30 marks

1. Dental lamina and its role
2. Hertwigs epithelial root sheeth
3. Describe the keratinized mucosa with neat diagram
4. Circumvallate papillae
5. Describe the buccal mucosa with neat diagram
6. Function of Oral Mucous Membrane
7. Describe the lining of maxillary sinus

Short answers  10X1=10 marks

1. Classify gingiva?
2. What is mid palatine raphe?
3. What is enamel chord?
4. Cell rests of serres?
5. Tongue papillae which are maximum in number?
6. Dental papilla
7. What is an antrum?
8. Developmental teeth starts at _______ week of embryology  
   a) 4  b) 6  c) 8  d) 10
9. Odontoblast develop from  
   a)dental papilla b)outer enamel epithelium c)inner enamel epithelium d)dental sac
10. Keratohyaline granules are seen in  
    a) st. basale b)st. spinosum  c)st. granulosum d)st. corneum
Section II

Main Questions (10 Marks Each)

Q-1 Define and classify trauma from occlusion, write its stages, Clinical features, radiological features and its treatment plan.

Q-2 Define Aggressive periodontitis. Describe its etiology, Clinical features and radiographic features and discuss treatment plan.

Q-3 Classify gingival Enlargement. Discuss in detail clinical features, pathogenesis and treatment of drug induced gingival enlargement.

Q-4 Enumerate various bone destruction patterns in periodontal disease in detail

Short Notes (2 Marks Each)

Q-5 Controlled drug Release System

Q-6 Immunological cells of Periodontium

Q-7 Describe etiology, clinical features, Radiographic features of NUP

Q-8 Immunological component of Periodontal Disease

Q-9 Differentiate periodontal and Periapical abscess
Narsinhbhai Patel Dental College and Hospital
Department Of Dental Anatomy and Histology
First yr BDS Pre University Exam-June 2014 batch

Note: Draw neat and labelled diagrams where ever necessary

Time: 3 hours

Section-A

Long Essay
1. Write in detail about permanent maxillary first molar. Add a note on its blood supply and nerve supply. 14X1=14

Short Essays (answer any five) 5X5=25
2. HERS
3. Types of dentine
4. Principal fibers of periodontal ligament
5. Age changes in pulp
6. Shedding
7. Difference between cellular and Acellular cementum

Short Answers 1X11=11
8. Enumerate types of keratinized mucosa.
10. Vonkroff’s fibers.
11. Tome’s process.
12. Most accepted theory of eruption is---------------------
13. Curve of Spee.
14. Deciduous right 1st molar will be denoted in FDI system as -----------
15. Col.
16. The percentage of inorganic component of enamel is ----------------
17. Basal lamina.
18. Odontoclasts.
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Note: Draw diagrams where ever necessary

Section-B

Long Essay
1. Classify salivary glands according to the type of its secretion. Write in detail about Histology of mucous and serous salivary glands. Add a note on its ductal pattern.

14X1=14

Short Essays( answer any five )
2. Cap stage of tooth development.
3. Dentinogenesis
4. Differences between keratinised and nonkeratinized epithelium
5. Theories of dentine pain sensitivity.
7. Functions of saliva.

5X5=25

Short Answers
8. Mesiolingual developmental groove.
10. Types of CEJ.
11. Serous demilune.
12. Enumerate nonkeratinocytes.
14. Permanent mandibular right 3rd molar will be designated in universal system as -------
15. Gnarled enamel.
16. Pulp stones----------------
17. Bone will be resorbed by -------------- cells.
18. Nerve supply of tongue

1X11=11
(b) Permanent Maxillary 1st premolar (d) Mandibular 2nd premolar
(a) Permanent Maxillary 3rd molar (b) Mandibular 1st premolar
(c) Mesenchymal developmental groups are seen in
(b) Tooth formation
(a) Bone is formed by----------cells.

3. Short answer:
(a) Serosal salivary gland.
(d) Write in detail about occlusal surface of maxillary 1st premolar.
(c) Periodontal friction theory.
(e) Enumerate all theories of tooth eruption. Write in detail about
(b) Write in detail about all types of dentine.
(a) Early and late Bell stage of tooth development.

2. Short Essay: (answer any three):

(a) Mucosa. Add a note on its functions.
1. Classify oral mucous membrane. Write in detail about keratinized

SECTION-A

NOTE: Write real labeled diagrams where ever it is necessary.

Total Marks: 70

Time: 3 Hours
2. Write in detail about formation of root. 15

3. Write in detail about permanent mandibular 11 molar. 14

SECTION-B

(g) Col.

(e) Melanocytes

d) 46

c) 56

(a) 16

(b) 36

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(d) Cusp of cusp is seen in

(c) Dentine

(b) Enamel

(a) Cementum

(c) Incisal edges of lower incisor is seen in

(b) Dentinoenamel junction

(a) Nerve supply of tongue.

3. Short answer:

(a) Histology of maxillary sinus.

(b) Shedding.

(c) Write in detail about formation of root.

(d) Principles of periodontal ligament.

(e) Theories of pain transmission through dentine.

2. Short Essay: (answer any three)