

Narsinhbhai Patel Dental college & Hospital, VisnagarBDS-1stYear- EXAMINATION- 2ndInternal Examination-2023 - 24**Subject Name:**Dental Anatomy, Embryology, Oral Histology**Date:**24/04/24**Time:**2Hrs.**Total Marks:** 50

Instructions: 1. Use separate answer book for each section. 2. Attempt all questions
3. Draw diagrams wherever necessary. 4. Figure to the right indicate marks.

SECTION-A

- Q.1 Answer Structured Long Essay** **07 Marks**
A) Describe in detail about morphology of Permanent Mandibular 1st Molar
- Q.2 Write Short Essay (Any 3 out of 5)** **12 Marks**
A) Write in detail about Permanent Mandibular 1st Premolar
B) Occlusal aspect of Permanent Maxillary 1st Molar
C) Define Line angle and Point angle and mention the angles of Posterior teeth
D) Difference between Permanent Maxillary 1st Premolar and Permanent Maxillary 2nd Premolar
E) Describe in detail about Tooth numbering systems
- Q.3 Answer Following short question.** **06 Marks**
A) What is Bunodont? give examples
B) Define Gomphosis and write which type of joint is it?
C) Define groove and fissure
D) FDI number of Permanent Left Maxillary II Molar
E) What does "11" mean according to ADA?
F) First non succedaneous tooth to erupt in oral cavity is _____

SECTION-B

- Q.4 Answer Structured Long Essay** **07 Marks**
A) Describe in detail about Amelogenesis
- Q.5 Write Short Essay (Any 3 out of 5)** **12 Marks**
A) Describe in detail about Fibers of PDL and their Functions
B) Write in detail about Types of Cementum and Schroeder's Classification.
C) Tertiary Dentin
D) Histology of Pulp
E) Write in details about incremental lines of Enamel, Dentin & Cementum.
- Q.6 Answer following MCQ's** **6 Marks**
- 1) Blunt cell process seen on developing ameloblasts are called as _____
a) Tomes fibers c) Tomes Layer
c) Tomes processes d) Odontoblastic Processes
- 2) Inorganic content of Enamel is about a) 50%
c) 4% d) 96%
- 3) The Organic lining of calcified dentinal tubules is known as
a) Lamina propria b) Lamina lucida
c) Lamina densa d) Lamina limitans
- 4) Cells occurring in greatest number in pulp are
a) Fibroblast b) Cementoblast
c) Osteoblast d) Ameloblast
- 5) Maximum Fluoride content is seen in
a) Cementum b) Enamel
c) Pulp d) Dentine
- 6) The most abundant principal fiber group in periodontal ligament is
a) Apical b) Horizontal
c) Oblique d) Transeptal

SANKALCHAND PATEL UNIVERSITY
BDS – (1st) Year – EXAMINATION, JAN-FEB– 2024

Subject Code: 1DS1010103**Date: 21/02/2024****Subject Name: Dental Anatomy, Embryology & Oral Histology****Time: 3 Hrs.****Total Marks: 70****Instructions:**

1. Use separate answer book for each section.
2. Attempt all questions.
3. Draw diagrams wherever necessary.
4. Figures to the right indicate marks.

SECTION – A

- Q.1 Structured Long Essay with options (1 out of 2) 10**
- A** Histology of Pulp. dibular Canine.
B Compare and contrast Permanent Maxillary Canine and Permanent Man
- Q.2 Short Essay with options (3 out of 5) 15**
- A** Line angle and point angle
B Elevations on the surface of teeth
C Differences between cellular and acellular cementum
D Theories of tooth eruption
E Amelogenesis
- Q.3 Objective type Without options 5**
- A** What is Lamina dura?
B Arch Traits and class traits.
C What is Tome's fiber?
D Name of serous minor salivary gland.
E Eruption time of permanent maxillary first molar.
- Q.4 MCQ's Without options 5**
- A** The successor of the deciduous teeth develops from
a) Lingual extension of the dental lamina
b) Labial extension of the dental lamina
c) Buccal extension of the dental lamina
d) Occlusal extension of the dental lamina
B The gnarled enamel is observed in
a) in cervical area
b) only in the canine
c) in carious areas
d) in cuspal areas

- C Korff's fibers are found in
 - a) Primary dentin
 - b) Secondary dentin
 - c) Sclerotic dentin
 - d) Transparent dentin
- D In a view of Maxillary Central incisor, the mesial interproximal contact area is located in which third of the crown?
 - a) Cervical
 - b) Junction of cervical and middle
 - c) Middle
 - d) Incisal
- E Primary molars are replaced by which one of the following types of Permanent teeth?
 - a) Molars
 - b) Canine
 - c) Premolar
 - d) Any of above

SECTION – B

- Q.5** Structured Long Essay with options (1 out of 2) 10
- A Differences between Keratinized and Non-keratinized mucosa.
 - B Describe chronology and morphology of Permanent Mandibular First Molar in detail.
- Q.6** Short Essay with options (3 out of 5) 15
- A Tooth numbering system
 - B Importance of deciduous teeth
 - C Incremental lines of teeth
 - D Root formation
 - E Functions of Periodontal ligament
- Q.7** Objective type Without options 5
- A What is apical foramen?
 - B What is Groove?
 - C What is Ground section?
 - D Which cells are responsible for shedding?
 - E What is an Oxytalan fiber?

Q.8 MCQ's Without options

5

- A** The alveolar bone
- a) consists of a compact layer and a cancellous layer
 - b) can be demarcated from the bone of the jaw
 - c) is known as periodontal plate
 - d) increases in size to compensate for loss of permanent teeth
- B** Which papillae of tongue are keratinized and do not contain taste buds?
- a) Fungiform papillae
 - b) Filiform papillae
 - c) Vallate papillae
 - d) (b) and (c)
- C** The parotid glands open through the
- a) Stensen's duct
 - b) Wharton's duct
 - c) Bartholin's duct
 - d) Blanden duct
- D** When two teeth in the same arch are in contact, their curvature adjacent to the contact areas from which of the following embrasures?
- a) Occlusal
 - b) Facial
 - c) Lingual
 - d) All of above
- E** Which tooth has Y developmental groove pattern?
- a) Maxillary canine
 - b) Mandibular Second Premolar with three cusps
 - c) Mandibular Second Premolar with two cusps
 - d) Maxillary 1st molar

Narsinhbhai Patel Dental college & Hospital, VisnagarBDS-1stYear- EXAMINATION- 1st Internal Examination-2023 - 24**Subject Name:**Dental Anatomy , Embryology , Oral Histology**Date:**6/01/24**Time:**2Hrs.**Total Marks:** 50

Instructions: 1. Use separate answer book for each section. 2. Attempt all questions
3. Draw diagrams wherever necessary. 4. Figure to the right indicate marks.

SECTION-A

- Q.1 Answer Structured Long Essay** **07 Marks**
A) Describe in detail about morphology of Permanent Maxillary Central Incisor
- Q.2 Write Short Essay (Any 3 out of 5)** **12 Marks**
A) FDI notation
B) Permanent Maxillary Lateral Incisor
C) Define Line angle and Point angle and mention the angles of Posterior teeth
D) Difference between Permanent Maxillary Canine and Permanent Mandibular Canine
E) Functions of Teeth
- Q.3 Answer Following short question.** **06 Marks**
A) Enamel Knot
B) Blastocyst
C) Define groove and fissure
D) FDI number of Permanent Right Maxillary Molar
E) What does "K" means according to ADA?
F) What are Succedaneous teeth? give examples

SECTION-B

- Q.4 Answer Structured Long Essay** **07 Marks**
A) Describe in detail about Development of Tongue
- Q.5 Write Short Essay (Any 3 out of 5)** **12 Marks**
A) Bell Stage
B) Development Of Palate
C) Meckle's Cartilage
D) Derivatives of 2nd Pharyngeal arch
E) Hertwig's Epithelial Root Sheath
- Q.6 Answer following MCQ's** **6 Marks**
- 1) Primary Dentition period is ?
a) From birth to 11 years
c) From 6 months to 6 years
b) From 6 months to 11 years
d) From 6 years to 11 years
 - 2) 3rd pharyngeal arch artery ?
a) Maxillary artery
c) Common carotid artery
b) Stapedial artery
d) Arch of aorta
 - 3) The root of Maxillary Lateral Incisor if curved is usually in which direction?
a) Distal
c) Facial
b) Mesial
d) Palatal
 - 4) Rounded protuberances on the incisal edges of newly erupted Permanent incisors are ?
a) Mamelons
c) Enamel pits
b) Tubercles
d) Cingulum
 - 5) Dental sac give rise to ?
a) Dentine & Pulp
c) Cementum & PDL
b) Cementum & Pulp
d) Dentine & Cementum
 - 6) Number of developmental lobes in human permanent anterior teeth
a) 1
c) 3
b) 2
d) 4

SANKALCHAND PATEL UNIVERSITY
BDS – 1st Year – EXAMINATION – Sept – Dec 2023

Subject Code: 1DS1010103**Date: 07/10/2023****Subject Name: Dental Anatomy, Embryology & Oral Histology****Time: 3 Hrs.****Total Marks: 70****Instructions:**

1. Use separate answer book for each section.
2. Draw diagrams wherever necessary.
3. Figures to the right indicate marks.

SECTION – A

- Q.1 Answer following Structured Long Essay question. (1 out of 2) 10
- A Describe in detail the morphology of permanent maxillary canine.
 B Describe in detail the tooth numbering system.
- Q.2 Answer following Short Essay questions. (3 out of 5) 15
- A Difference between deciduous and permanent dentition.
 B Occlusal aspect of permanent maxillary first molar.
 C Spillway space.
 D Difference between permanent maxillary Central and Lateral incisor.
 E Permanent mandibular second premolar.
- Q.3 Answer following Objective type/short questions. 5
- A Define fossa.
 B Dental formula for deciduous teeth.
 C Define line angle and point angle.
 D Smallest cusp in permanent mandibular first molar is?
 E Define curve of spee.
- Q.4 Answer following MCQ's 5
- 1 Deciduous maxillary left 1st molar is written in FDI system as ____
- | | |
|-------|-------|
| a. 26 | c. 16 |
| b. 56 | d. 64 |
- 2 Mesiolingual developmental groove is seen in ____
- | | |
|---|--|
| a. Permanent maxillary 1 st molar | c. Permanent mandibular 1 st premolar |
| b. Permanent maxillary 1 st premolar | d. Permanent maxillary 2 nd molar |
- 3 Process of enamel formation is known as
- | | |
|------------------|-------------------|
| a. Amelogenesis | c. Cementogenesis |
| b. Odontogenesis | d. Dentinogenesis |
- 4 Hard palate is ____
- | | |
|---------------------|--------------------|
| a. Non keratinized | b. Parakeratinized |
| b. Orthokeratinized | d. all of above |
- 5 Which tissue has maximum fluoride content?
- | | |
|------------------|-------------|
| a. Enamel | c. cementum |
| b. Alveolar Bone | d. dentin |

SECTION – B

- Q.5 Answer following Structured Long Essay question. (1 out of 2) 10
A Describe in detail stages of tooth development.
B Define oral mucous membrane. Give their classification and function and describe in detail about specialized mucosa.
- Q.6 Answer following Short Essay questions. (3 out of 5) 15
A Bone cells
B Function of Saliva
C Maxillary Sinus
D Difference between cellular and acellular cementum
E Zones of pulp
- Q.7 Answer following Objective type/short questions. 5
A Tertiary dentin
B Serous acini
C Neural crest cells
D Enamel tufts
E Name the principle fibers of PDL.
- Q.8 Answer following MCQ's 5
- 1 Which vitamin is essential for collagen synthesis
a. Vitamin A c. Vitamin B
b. Vitamin C d. Vitamin D
 - 2 Which premolar has nonfunctional lingual cusp?
a. Maxillary 1st c. Mandibular 1st
b. Maxillary 2nd d. Mandibular 2nd
 - 3 Order of eruption of primary teeth
a. ABCDE c. ABDCE
b. BADCE d. ABDEC
 - 4 Basically TMJ is
a. Ball & socket joint c. Diarthroidal joint
b. Synovial joint d. Hinge & axis joint
 - 5 Cusp of carabelli is seen in....
a. 16 c. 36
b. 56 d. 46

Narsinhbhai Patel Dental College & Hospital, Visnagar

BDS-1stYear- EXAMINATION-Preliminary-2023

Subject Name: Dental Anatomy and Oral Histology

Date: 06/09/2023

Time:3Hrs.

Total Marks: 70

Instructions: a. Use separate answer book for each section. b. Attempt all questions.
c. Draw diagrams wherever necessary. d. Figure to the right indicate marks.

SECTION-A

- Q.1 Answer Structured Long Essay (Any 1 out of 2)** 10
A Differences between Permanent and Deciduous dentition.
B Describe in detail the morphology of permanent maxillary Canine.
- Q.2 Write Short Essay (Any 3 out of 5)** 15
A) Occlusal surface of permanent maxillary first molar.
B) Mandibular first premolar.
C) Compensating curves.
D) Tooth notation.
E) Difference between permanent maxillary central incisor and mandibular central incisor.
- Q.3 Answer Following short question.** 5
A) Cusp of carabelli.
B) Define overjet and overbite.
C) Chronology of maxillary 1st premolar.
D) Define fossa and groove.
E) FDI number of deciduous mandibular right canine.
- Q.4 Answer following MCQ's** 5
- Oblique ridge pass from**
 - MB to DP cusp
 - MP to DP cusp
 - MB to MP cusp
 - DP to DB cusp
 - Mesiolingual developmental groove is seen in ---**
 - Permanent maxillary 1st molar
 - Permanent maxillary 1st premolar
 - Permanent mandibular 1st premolar
 - Permanent mandibular 2nd premolar
 - "Y" shape occlusal groove is most likely to be present in which of the following tooth?**
 - Deciduous premolar
 - Mandibular 2nd premolar
 - Mandibular 1st premolar
 - Maxillary 1st premolar
 - Which premolar has the highest propensity for multiple root canals?**
 - Maxillary 1st premolar
 - Maxillary 2nd premolar
 - Mandibular 1st premolar
 - All of above
 - Geometry of occlusal aspect of permanent maxillary 2nd molar is ---**
 - Rhomboid
 - Trapezoid
 - Triangular
 - Oval

SECTION-B

- Q.5 Answer Structured Long Essay (Any 1 out of 2)** 10
A Define and classify OMM. Add a note on specialized mucosa.
B Amelogenesis.
- Q.6 Write Short Essay (Any 3 out of 5)** 15
A) Zones of pulp.
B) Cap stage.
C) Histology of maxillary sinus.
D) Functions of saliva.
E) Bone cells.
- Q.7 Answer Following short question.** 5
A) Gubernacular canal.
B) What is tertiary dentin?
C) Types of CEJ.
D) Define morula.
E) Nasmyth's membrane.
- Q.8 Answer following MCQ's** 5
- 1) **The basket cells are also known as :**
 - a. Myoepithelial cells
 - b. Endothelial cells
 - c. Parenchymal cells
 - d. None of the above
 - 2) **Incremental lines of cementum are --**
 - a. Poorly mineralized
 - b. Irregularly mineralized
 - c. Highly mineralized
 - d. None of the above
 - 3) **Which of the following salivary gland is ectodermally derived?**
 - a. Parotid
 - b. Submandibular
 - c. Sublingual
 - d. Labial
 - 4) **Cell rests of Malassez are seen in**
 - a. In the jaw bone
 - b. In the CEJ
 - c. Among the layers of cementum
 - d. In the PDL
 - 5) **Sclerotic dentine is found generally in the teeth of ...**
 - a. Aged
 - b. Adolescents
 - c. children
 - d. Adults

Narsinhbhai Patel Dental college & Hospital, Visnagar
 BDS – 1st Year – EXAMINATION – 2nd Internal Examination -2022-2023

Subject Name: Dental Anatomy ,Embryology and Oral Histology

Date: 10/06/2023

Total Marks: 50

Time: 2 Hrs.

- Instructions:**
1. Use separate answer book for each section.
 2. Attempt all questions
 3. Draw diagrams wherever necessary.
 4. Figures to the right indicate marks.

SECTION – A

Q.1 Answer Structured Long Essay

07 Marks

- A) Describe in detail the morphology of Permanent Maxillary canine with neat diagrams

12 Marks

Q.2 Write Short Essay (Any 3 out of 5)

- A) Occlusal surface of Maxillary first premolar
- B) Difference between maxillary first and second premolar
- C) Occlusal surface of Mandibular second premolar
- D) Difference between Permanent Maxillary and Mandibular canine
- E) Cement enamel junction

06 Marks

Q.3 Answer Following short question.

- A) Name the roots of Maxillary first premolar
- B) Mesiolingual developmental groove is seen in
- C) Developmental depression seen on mesial surface of Maxillary first premolar
- D) Sclerotic dentin
- E) Bundle bone
- F) Undifferentiated mesenchymal cells

SECTION – B

Q.4 Answer Structured Long Essay

07 Marks

- A) Describe in detail the histology of pulp with neat labeled diagram

12 Marks

Q.5 Write Short Essay (Any 3 out of 5)

- A) Cells of Periodontal ligament
- B) Primary dentin
- C) Difference between Cellular and Acellular cementum
- D) Parts of alveolar bone
- E) Functions of pulp

6 Marks

Q.6 Answer following MCQ's

- 1) Permanent tooth with longer mesial slope
 - a) Maxillary canine
 - b) Mandibular Canine
 - c) Maxillary first premolar
 - d) Mandibular first premolar
- 2) Mesial Marginal developmental groove is seen on
 - a) Maxillary canine
 - b) Mandibular Canine
 - c) Maxillary first premolar
 - d) Mandibular first premolar
- 3) Permanent Mandibular canine erupts at
 - a) 8-9 yrs
 - b) 9-10 yrs
 - c) 10-11 yrs
 - d) 11-12 yrs
- 4) Incremental lines of Cementum are called as
 - a) Lines of Retzius
 - b) Lines of von Ebner
 - c) Contour lines of Owen
 - d) Lines of Salter
- 5) Functions of fibroblasts include all except
 - a) Formation of collagen
 - b) Destruction of collagen
 - c) Formation of blood vessels
 - d) Tissue remodelling
- 6) It is thicker in the mandible than maxilla, generally greater on the lingual than on the facial surface.
 - a) Spongosa
 - b) Cortical plate
 - c) Bundle bone
 - d) Lamina cribriformis

Seat No. _____

PRN _____

SANKALCHAND PATEL UNIVERSITY

BDS – 1st year – EXAMINATION – May – July 2023

Subject Code: IDS1010103

Date: 03/06/2023

Subject Name: Dental Anatomy, Embryology & Oral Histology

Time: 3 Hrs.

Total Marks: 70

Instructions:

1. Use separate answer book for each section.
2. Draw diagrams wherever necessary.
3. Figures to the right indicate marks.

SECTION – A

- Q.1 Structured Following Long Essay. (1 out of 2) 10
- A Describe in detail the chronology, labial, palatal, mesial, distal and occlusal aspect of permanent maxillary first premolar
 - B Describe in detail the difference between permanent and deciduous dentition and teeth.
- Q.2 Write following Short Essay (3 out of 5) 15
- A Difference between permanent maxillary and mandibular canine
 - B Occlusal aspect of mandibular second premolar
 - C Muscles of mastication
 - D FDI notation
 - E Development of root
- Q.3 Answer following Objective type questions. 5
- A Oblique ridge
 - B Spill way
 - C Key of occlusion
 - D Lingual fossas
 - E Root canals in permanent mandibular first molar
- Q.4 Answer following MCQ's 5
- A Tooth with longer mesial cusp slope
 - i. Maxillary first premolar
 - ii. Maxillary second premolar
 - iii. Mandibular first premolar
 - iv. Mandibular second premolar
 - B Largest cusp of permanent maxillary first molar
 - i. Mesio-buccal cusp
 - ii. Mesio-palatal cusp
 - iii. Disto-buccal cusp
 - iv. Disto-palatal cusp
 - C Hardest structure of tooth
 - i. Enamel
 - ii. Dentin
 - iii. Cementum
 - iv. None of the above
 - D Functional cusp of mandibular teeth are
 - i. Buccal cusps
 - ii. Lingual cusps
 - iii. Mesial cusps
 - iv. Distal cusps
 - E First permanent tooth to erupt
 - i. Maxillary central incisor
 - ii. Mandibular central incisor
 - iii. First molars
 - iv. Canines

SECTION - B

- Q.5 Structured Following Long Essay. (1 out of 2) 10
- A Describe in detail the principal fibers of periodontal ligament. Add a note on the functions of periodontal ligament
 - B Describe in detail the histology of tongue. Add a note on taste buds.
- Q.6 Write following Short Essay (3 out of 5) 15
- A Cap stage of tooth development
 - B Amelogenesis
 - C Theories of tooth eruption
 - D Functions of pulp
 - E Nonkeratinocytes
- Q.7 Answer following Objective type questions. 5
- A Cervical loop
 - B Mantle dentin
 - C Cell rich zone
 - D Bundle bone
 - E Serous salivary acini
- Q.8 Answer following MCQ's 5
- A Derivatives of Dental sac includes all except
 - i. Dentin
 - ii. Cementum
 - iii. Periodontal ligament
 - iv. Alveolar bone
 - B Glandular zone of palate is
 - i. Rugae area
 - ii. Raphae area
 - iii. Antero-lateral zone
 - iv. Postero-lateral zones
 - C Sharpey fibers are seen embedded in
 - i. Enamel
 - ii. Dentin
 - iii. Pulp
 - iv. Alveolar bone
 - D Mesenchymal structure seen in enamel is
 - i. Enamel lamella
 - ii. Enamel spindle
 - iii. Enamel tuft
 - iv. HS bands
 - E Cellular cementum includes all except
 - i. Also called secondary cementum
 - ii. Contain cementocytes
 - iii. Seen on apical third of root
 - iv. Incremental lines are regular
- *****

Narsinhbhai Patel Dental college & Hospital, Visnagar
 BDS - 1st Year - EXAMINATION - 1st Internal Examination -2022- 2023

Subject Name: Dental Anatomy, Embryology and Dental Histology
Time: 2 Hrs.

Date: 29/03/2023

Total Marks: 50

- Instructions:** 1. Use separate answer book for each section. 2. Attempt all questions
 3. Draw diagrams wherever necessary. 4. Figures to the right indicate marks.

SECTION - A

Q.1 Answer Structured Long Essay

07 Marks

- A) Describe in detail the Tooth numbering system

12 Marks

Q.2 Write Short Essay (Any 3 out of 5)

- A) Lingual surface of Permanent maxillary central incisor
 B) Depressions on tooth
 C) Contact point and contact area
 D) Mandibular Lateral Incisor
 E) Chronology of tooth

06 Marks

Q.3 Answer Following short question.

- A) Line angle and Point angle
 B) Dental formula for deciduous and permanent dentition
 C) Embrasure
 D) Ameloblasts
 E) Epithelial diaphragm
 F) Meckle's cartilage

SECTION - B

Q.4 Answer Structured Long Essay

07 Marks

- A) Describe in detail the morphologic stages of development of teeth

12 Marks

Q.5 Write Short Essay (Any 3 out of 5)

- A) Development of palate
 B) Hypocalcified Zones in enamel
 C) Dental sac
 D) Hertwig's epithelial root sheath
 E) Morpho-differentiation

6 Marks

Q.6 Answer following MCQ's

- | | |
|---|-------------------------------|
| 1) M shaped fossa is seen in | b) Maxillary Lateral Incisor |
| a) Maxillary Central Incisor | d) Mandibular Lateral Incisor |
| c) Mandibular Central Incisor | |
| 2) Enamel tufts are best demonstrated on | b) Transverse section |
| a) Longitudinal section | d) Decalcified section |
| c) Cross section | |
| 3) Tooth with linguallly placed incisal edge | b) Maxillary Lateral Incisor |
| a) Maxillary Central Incisor | d) None |
| c) Mandibular Central Incisor | |
| 4) Odontoblasts are derived from | b) Dental sac |
| a) Outer enamel epithelium | d) Inner enamel epithelium |
| c) Dental papippa | |
| 5) No of roots is determined by | b) Epithelial root sheath |
| a) Hertwig's epithelial root sheath | d) Dental Sac |
| c) Enamel organ | |
| 6) First evidence of calcification is seen in | b) Cap stage |
| a) Bud stage | d) Advance Bell stage |
| c) Early Bell stage | |

SECTION -B

- Q. 5 Answer following Structured Long Essay (1 out of 2) 10
A. Describe in detail about structural component of dental pulp
B. Classify oral mucous membrane. Write in detail about specialized mucosa with diagram
- Q. 6 Write following Short Essay (3 out of 5) 15
A. Hypocalcified structures of dentin
B. Stages of tooth eruption
C. Life cycle of ameloblast
D. Histology of maxillary sinus
E. Cells of PDL
- Q. 7 Answer following short/Objective questions 5
A. What is Dental lamina?
B. What is primary dentin?
C. Write about osteoclast
D. Clinical consideration of cementum
E. Blood supply and nerve supply of maxillary 1st molar
- Q. 8 Answer following MCQ's 5
- The epithelium of oral mucous membrane is.
a. Stratified columnar
b. Stratified squamous
c. Pseudostratified squamous
 - The dentin which immediately surrounds the dentinal tubules is
a. Peritubular dentin b. Intertubular dentin
c. Predentin d. First formed dentin
 - In which of the following papillae of the tongue are the taste buds predominantly located
a. Filiform b. Fungiform
c. Foliate d. circumvallate
 - Initiation of tooth formation occurs at
a. 1st week of post natal life b. 2nd week of IU life
c. 6th week of IU life d. 6th month of IU life
 - Stratum intermedium first appear during
a. Bud stage b. Cap stage
c. Bell stage d. None of the above

SANKALCHAND PATEL UNIVERSITY**BDS – 1st Year – EXAMINATION – JAN-FEB – 2023****Subject Code: 1DS1010101****Date: 01/02/ 2023****Subject Name: General Human Anatomy including Embryology & Histology****Time: 3 hours****Total Marks: 70****Instructions:**

1. Use separate answer book for each section.
2. Attempt all questions.
3. Draw diagrams wherever necessary.
4. Figures to the right indicate marks.

SECTION – A

- Q.1 Answer the following structured long essay question (1 out of 2) (10)
- A. Gross anatomy and applied anatomy of cavernous sinus
 - B. Temporomandibular joint
- Q.2 Answer the following short essay questions (3 out of 5) (15)
- A. Digastric triangle
 - B. Mandibular nerve
 - C. Development of palate
 - D. Histology of compact bone
 - E. Gross anatomy of stomach
- Q.3 Answer the following objective questions (5)
- A. What is black eye ?
 - B. Name the structures passing through internal acoustic meatus.
 - C. Name the branches of first part of maxillary artery.
 - D. What is carotid sinus ?
 - E. Name the infrahyoid muscles.
- Q.4 Answer following Multiple choice questions (5)
- 1 Safety muscle of tongue is...

A) Hyoglossus	B) Genioglossus
C) Paltoglossus	D) Styloglossus
 - 2 Nasolacrimal duct opens into...

A) Superior meatus	B) Middle meatus
C) Inferior meatus	D) Sphenoethmoidal recess
 - 3 Median atlantoaxial joint is which type of joint ?...

A) Pivot	B) Saddle
C) Ellipsoid	D) Hinge
 - 4 Trapezius muscle is supplied by which nerve ?

A) Hypoglossal	B) Glossopharyngeal
C) Mandibular	D) Spinal accessory
 - 5 Urinary bladder is lined by.....

A) Simple squamous epithelium	B) Stratified squamous epithelium
C) Transitional epithelium	D) Simple columnar epithelium

SECTION – B

- Q.5 Answer the following structured long essay question (1 out of 2) (10)
- A. Gross anatomy and applied anatomy of maxillary sinus
 - B. Attachments, nerve supply, actions & applied anatomy of extraocular muscles
- Q.6 Answer the following short essay questions (3 out of 5) (15)
- A. Sternocleidomastoid muscle
 - B. Otic ganglion
 - C. Development of tongue
 - D. Histology of thyroid gland
 - E. Pyramidal tract
- Q.7 Answer the following objective questions (5)
- A. What is Little's area ?
 - B. What is trigeminal neuralgia ?
 - C. Name the different parts of deep cervical fascia.
 - D. Name the structures attached to the styloid process.
 - E. Mention the type of cartilage present in trachea.
- Q.8 Answer following Multiple choice questions (5)
- 1 Chorda tympani nerve is a branch of which nerve ?
 - A) Facial
 - B) Mandibular
 - C) Vagus
 - D) Hypoglossal
 - 2 Which of the following nerve passes through foramen ovale ?
 - A) Greater petrosal
 - B) Deep petrosal
 - C) Lesser petrosal
 - D) Maxillary
 - 3 Facial artery is usually a branch of...
 - A) Internal carotid artery
 - B) External carotid artery
 - C) Maxillary artery
 - D) Subclavian artery
 - 4 Nerve of 3rd branchial arch is...
 - A) Hypoglossal
 - B) Glossopharyngeal
 - C) Facial
 - D) Mandibular
 - 5 Abduction of vocal cord is done by...
 - A) Lateral cricoarytenoid
 - B) Transverse arytenoid
 - C) Oblique arytenoid
 - D) Posterior cricoarytenoid

Narsinhbhai Patel Dental college & Hospital, Visnagar

BDS – Year – EXAMINATION – Preliminary -2022

26/12/22

Subject Name: Dental Anatomy, Embryology and Oral Histology**Date:** 24-12-2022**Time:** 3 Hrs.**Total Marks:** 70**Instructions:**Use separate answer book for each section.
Draw diagrams wherever necessary.Attempt all questions.
Figures to the right indicate marks.**SECTION – A**

- Q.1 Answer Structured Long Essay (Any 1 out of 2) 10
 A Describe morphological aspects of Permanent Maxillary First Premolar.
 B Describe in detail about Permanent Maxillary canine.
- Q.2 Write Short Essay (Any 3 out of 5) 15
 A Difference between Deciduous & Permanent Dentition
 B Occlusal surface of Mandibular First Molar
 C Tooth Numbering System
 D Movements of centric occlusion
 E Difference between Permanent maxillary & mandibular incisors.
- Q.3 Answer Following short question
 A Cusp of carabelli
 B Sequence of deciduous dentition.
 C Curve of spee
 D Embressure
 E Mamelon
- Q.4 Answer following MCQ's 5 Marks
- The position of maximum inter-cuspatation of upper & lower teeth is referred as...
 A) Centric position
 B) Centric occlusion
 C) Centric relation
 D) Centric bite
 - Which of the following is generally the longest root of permanent maxillary first molar?
 A) Distal
 B) Mesial
 C) Distobuccal
 D) Palatal
 - A Yshaped occlusal groove is most likely to be present in which of the following teeth?
 A) Deciduous premolars
 B) Mandibular first premolar
 C) Mandibular second premolar
 D) Maxillary second premolar
 - Identify number of deciduous mandibular left first molar in FDI numbering system.
 A) 26
 B) 36
 C) 74
 D) 84
 - The average root length of maxillary central incisor is.
 A) 10 mm
 B) 13 mm
 C) 16 mm
 D) 17 mm

SECTION - B

- Q.5 Answer Structured Long Essay (Any 1 out of 2)** 10
 A Classify salivary gland & write in detail about major salivary gland.
 B Describe in detail about life cycle of ameloblast.
- Q.6 Write Short Essay (Any 3 out of 5)** 15
 A Function of saliva.
 B Maxillary Sinus
 C Bone cells
 D Bell stage
 E Difference between cellular & acellular cementum
- Q.7 Answer Following short question.** 5
 A Stellate Reticulum
 B Von ebner gland
 C Guberneculum dentist
 D Stratum intermedium
 E Gnarled enamel
- Q.8 Answer following MCQ's** 5
- 1) Which of the following types of dentin is continuously produced throughout life?

A) Interglobulin dentin	B) Intratubular dentin
C) Mantle dentin	D) Tertiary dentin
 - 2) Which of the following ducts arise from secretory end pieces of salivary gland?

A) Intercalated ducts	B) Striated ducts
C) Excretory ducts	D) Secretory
 - 3) Merkel cells are likely to be found in which of the following tissue?

A) Epithelium	B) Periosteum
C) Papillary lamina propria	D) Reticular lamina propria
 - 4) The morphology of crown of the tooth is determined at which of the following stage of tooth development?

A) Bud stage	B) Cap stage
C) Early bell stage	D) All of the above
 - 5) Nonkeratinocytes are all except

A) Melanocytes	B) Langerhans cells
C) Merkel cells	D) Basal cells

Seat No.: _____

PR No.: _____

SANKALCHAND PATEL UNIVERSITY
BDS 1st Year SP. EXAMINATION Jan 2021

Subject Code:1DS1010103

Date:04/01/2021

Subject Name: Dental Anatomy, Embryology and Oral Histology

Time: 3 Hrs.

Total Marks: 70

Instructions:

1. Use separate answer book for each section.
2. Attempt all questions.
3. Draw diagrams wherever necessary.
4. Figures to the right indicate marks.

SECTION - A

- Q.1 Answer following Structured Long Essay (1 out of 2) 10
- A Describe anatomy of Permanent Maxillary 1st Molar in detail.
- B Write differences between primary and permanent dentitions.
- Q.2 Answer Short Essay (3 out of 5) 15
- A Curve of Spee
- B Embrasures
- C Differences between Mandibular 1st and 2nd premolars
- D Ridges and grooves
- E FDI notation system
- Q.3 Answer following short Objective type questions. 5
- A How many pulp horns and pulp canals are there in permanent mandibular 1st molar tooth?
- B What are the blood supply and nerve supply of maxillary premolars?
- C What are mamelons? Where are they seen?
- D What is transition dentition period?
- E What are line angles and point angles? Give examples.
- Q.4 Answer following MCQs 5
- 1 The minimum number of lobes in the development of a permanent tooth is :
A. 5 B. 3 C. 4 D. 2
- 2 Mesial contact area of permanent maxillary lateral incisor is located at :
A. Junction of middle and cervical third
B. Center of middle third
C. Junction of incisal and middle third
D. Center of incisal third

- 3 The shape of the crown of permanent maxillary canine from labial aspect is :
- Trapezoidal
 - Pentagonal
 - Hexagonal
 - Conical
- 4 The mesial marginal developmental groove is located on which of the following tooth :
- Maxillary 1st premolar
 - Mandibular 1st premolar
 - Permanent maxillary 1st molar
 - Permanent mandibular 1st molar
- 5 Permanent mandibular 2nd molar has
- 2 cusps
 - 3 cusps
 - 4 cusps
 - 5 cusps

SECTION - B

- Q.5 Answer following Structured Long Essay (1 out of 2) 10
- Classify oral mucous membrane. Write in detail about histology of gingiva.
 - Describe structure of dentin in detail.
- Q.6 Answer following Short Essay (3 out of 5) 15
- Theories of eruption
 - Principal group of fibers of PDL
 - Differences between cellular and acellular cementum
 - Age changes of pulp
 - Cap stage
- Q.7 Answer following short Objective type questions. 5
- What are zymogen granules?
 - What is bundle bone?
 - Which are the hypocalcified areas of enamel?
 - What is lamina dura?
 - What are Tomes' processes?

Q.8 Answer following MCQs

5

- 1 Dentino-enamel junction in a permanent teeth is :
 - A. A straight line
 - B. A scalloped line with convexities towards dentin
 - C. A scalloped line with concavities towards dentin
 - D. None of the above

- 2 The total number of pulp organ in humans is :
 - A. 20
 - B. 28
 - C. 32
 - D. 52

- 3 The commonest type of CEJ is the
 - A. Butt joint
 - B. Gap junction
 - C. Enamel overlapping cementum
 - D. Cementum overlapping enamel

- 4 Structure that is not seen in a ground section :
 - A. Enamel
 - B. Dentin
 - C. Pulp
 - D. Cementum

- 5 Keratohyalin granules are seen in :
 - A. Stratum spinosum
 - B. Stratum granulosum
 - C. Stratum intermedium
 - D. Stratum superficiale

SANKALCHAND PATEL UNIVERSITY**BDS – (1st) Year – EXAMINATION – NOV-DEC 2021****Subject Code: 1DS1010103****Date: 08/12/ 2021****Subject Name: Dental Anatomy, Embryology & Oral Histology****Time: 3 Hrs.****Total Marks: 70****Instructions:**

1. Use separate answer book for each section.
2. Attempt all questions.
3. Draw diagrams wherever necessary.
4. Figures to the right indicate marks.

SECTION – A

- Q.1 Answer Structured Long Essay (1 out of 2) 10
- A Describe in detail the morphology of Permanent Maxillary canine. Add a note on the differences between Maxillary canine and Mandibular canine
 - B Differences between the Deciduous and Permanent dentition and teeth.
- Q.2 Answer Short Essay (3 out of 5) 15
- A FDI notation of teeth
 - B Occlusal aspect of Mandibular second premolar
 - C Embrasure
 - D Differences between maxillary first and second premolar
 - E Inferior alveolar nerve
- Q.3 Answer following Objective type /short questions 5
- A Active and Passive eruption
 - B Oblique ridge
 - C Pulp anatomy of Permanent Mandibular First Molar
 - D Compensating curves
 - E Eruption sequence for permanent dentition
- Q.4 Answer following MCQ's 5
- 1 55 is
 - a. Permanent Maxillary Right First Molar
 - b. Permanent Mandibular Right Second Molar
 - c. Deciduous Maxillary Right First Molar
 - d. Deciduous Maxillary Right Second Molar
 - 2 Fissure is
 - a. Pin point depression
 - b. Linear depression
 - c. Pin point elevation
 - d. Linear elevation

- 3 Mesio-lingual developmental groove is seen in
 - a. Maxillary First Premolar
 - b. Maxillary Second Premolar
 - c. Mandibular First Premolar
 - d. Mandibular Second Premolar
- 4 First permanent tooth to erupt
 - a. Mandibular First Molar
 - b. Mandibular Central Incisor
 - c. Maxillary Central Incisor
 - d. Maxillary Canine
- 5 Tooth with longest crown
 - a. Permanent Maxillary Central Incisor
 - b. Permanent Maxillary Canine
 - c. Permanent Maxillary First Molar
 - d. Permanent Mandibular Canine

SECTION – B

- | | | |
|-----|---|----|
| Q.5 | Answer Structured Long Essay (1 out of 2) | 10 |
| | A Describe in detail the histology of tongue. Add a note on the development of tongue | |
| | B Describe in detail the histology of periodontal ligament. Add a note on the cells of periodontal ligament | |
| Q.6 | Answer Short Essay (3 out of 5) | 15 |
| | A Hertwig's epithelial root sheath | |
| | B Histology of pulp | |
| | C Differences between cellular and acellular cementum | |
| | D Theories of tooth eruption | |
| | E Serous Salivary gland | |
| Q.7 | Answer following Objective type /short questions | 5 |
| | A Synovial joint | |
| | B Reparative dentin | |
| | C Surface structures of enamel | |
| | D Myoepithelial cells | |
| | E Odontoclasts | |

Q.8 Answer following MCQ's

5

- 1 Lining of maxillary sinus is made up of
 - a. Simple squamous epithelium
 - b. Stratified squamous epithelium
 - c. Pseudo-stratified ciliated columnar epithelium
 - d. Endothelium
- 2 Junction between epithelium and connective tissue is comprised of
 - a. Basal lamina
 - b. Dental lamina
 - c. Lamina limitans
 - d. Lamina propria
- 3 Transient structure seen during cap stage of tooth development includes all except
 - a. Enamel niche
 - b. Enamel chord
 - c. Enamel knot
 - d. Enamel prism
- 4 Zymogen granules are seen in
 - a. Serous cells
 - b. Mucous cells
 - c. Myoepithelial cells
 - d. All of the above
- 5 Sharpeys fibers are seen embedded in _____ and _____
 - a. Enamel and dentin
 - b. Dentin and cementum
 - c. Cementum and enamel
 - d. Alveolar bone and cementum

Seat No.: _____

PR No.: _____

SANKALCHAND PATEL UNIVERSITY
BDS – 1st Year – EXAMINATION – July-Sept. – 2021

Subject Code: 1DS1010103

Date: 17/ 09/ 2021

Subject Name: Dental Anatomy, Embryology & Oral Histology

Time: 3 Hrs.

Total Marks: 70

Instructions:

1. Use separate answer book for each section.
2. Attempt all questions.
3. Draw diagrams wherever necessary.
4. Figures to the right indicate marks.

SECTION – A

- Q.1 Answer following Structured Long Essay questions (1 out of 2) 10
- A Describe the chronology and morphology of permanent mandibular first premolar.
 - B Describe in detail about the different types of tooth numbering systems.
- Q.2 Answer following Short Essay questions (3 out of 5) 15
- A Differences between permanent and deciduous dentition.
 - B Occlusion
 - C Differences between permanent maxillary, central and lateral incisors.
 - D Describe the occlusal surface of permanent maxillary 1st molar.
 - E Chronology of Deciduous and permanent dentition.
- Q.3 Answer following short/ Objective type questions. 5
- A What is the first permanent tooth to erupt in the oral cavity?
 - B What is the function of canines?
 - C Dental formula
 - D Define groove
 - E Oblique ridge
- Q.4 Answer following MCQ's 5
- 1 How to write right mandibular central incisor in FDI tooth numbering system?
 - a) 31
 - b) 11
 - c) 41
 - d) 21

- 2 Which premolar has the highest propensity for multiple root canals??
 - a) Maxillary 1st premolar
 - b) Maxillary 2nd premolar
 - c) Mandibular 1st premolar
 - d) All of the above.
- 3 Mandibular 1st premolar are....than mandibular 2nd premolar.
 - a) Longer
 - b) Shorter
 - c) Same
 - d) None
- 4 Which one of the following dental (enamel) organs is usually the first to develop?
 - a) 1st permanent molar
 - b) permanent central incisor
 - c) deciduous central incisor
 - d) deciduous canine
- 5 Number of roots present for maxillary 1st premolar
 - a) 1
 - b) 2
 - c) 3
 - d) 4

SECTION – B

- Q.5 Answer following Structured Long Essay questions (1 out of 2) 10
- A Classify salivary glands. Discuss in detail about the histology of major salivary glands with suitable diagrams.
 - B Write in detail about the structure of dentin. Add a note on age changes of dentin.
- Q.6 Answer following Short Essay questions (3 out of 5) 15
- A Differences between cellular and acellular cementum.
 - B Histology of bell stage of tooth development.
 - C Life cycle of Ameloblast.
 - D Theories of eruption.
 - E Describe in detail about epithelium covering the dorsal surface of the tongue and types of papillae present.
- Q.7 Answer following short/ Objective type questions. 5
- A Describe the histology of maxillary sinus lining.
 - B What are Sharpey's fibres?
 - C Active and passive eruption.
 - D Name the duct of the parotid salivary gland
 - E What is Tomes granular layer

Q.8 Answer following MCQ's

5

- 1 Dead tracts in ground section appears as:
 - a) Dentinal tubules
 - b) Coarse fibrils bundles arranged at right angle to the dentinal surface
 - c) Black in transmitted light & white in reflected light
 - d) White in transmitted light & dark in reflected light
- 2 Keratohyalin is found in the
 - a) stratum granulosum
 - b) stratum lucidum
 - c) stratum corneum
 - d) stratum reticularis
- 3 Which one of the following is a "pure" serous gland?
 - a) parotid gland (adult)
 - b) submandibular gland
 - c) labial gland
 - d) sublingual gland
- 4 Which one of the following is not a part of the tooth germ (dental/enamel organ)?
 - a) dental sac
 - b) dental papilla
 - c) stellate reticulum
 - d) dental lamina
- 5 The epithelial (Hertwig's) root sheath is involved in the formation of
 - a) crown
 - b) root
 - c) coronal pulp chamber
 - d) epithelial pearls

Seat No.:

PR No.:

SANKALCHAND PATEL UNIVERSITY

BDS 1st Year – EXAMINATION – December – 2020

Subject Code: 1DS1010103

Date: 26/12/2020

Subject Name: Dental Anatomy, Embryology & Oral Histology

Time: 3 Hrs.

Total Marks: 70

Instructions:

1. Use separate answer book for each section.
2. Attempt all questions.
3. Draw diagrams wherever necessary.
4. Figures to the right indicate marks.

SECTION – A

- Q.1 Write Structured Long Essay (1 out of 2) 10
- A Differences between permanent and deciduous dentition.
 - B Classify oral mucosa. Describe the macroscopic and microscopic appearance of gingiva.
- Q.2 Write Short Essay (3 out of 5) 15
- A Life cycle of ameloblast
 - B Functions of pulp
 - C Types of cementum
 - D Eruption age of permanent and deciduous dentition
 - E Tooth numbering system
- Q.3 Answer following short objective questions. 5
- A What is alveolus?
 - B Theories of tooth eruption
 - C What is serous demilune?
 - D Ligaments of TMJ
 - E What is developmental lobe?
- Q.4 Answer following MCQ's 5
- 1 Palatoradicular groove is present in
 - A. Maxillary central incisor
 - B. Maxillary lateral incisor
 - C. Mandibular central incisor
 - D. Mandibular lateral incisor
 - 2 Geometry of proximal aspect of permanent mandibular first molar is
 - A. Rhomboid
 - B. Trapezoid
 - C. Triangular
 - D. Irregular

- 3 The angle formed by junction or union of two surfaces
A. Point
B. Line
C. Both of above
D. None of above
- 4 In H & E stained section, eosin stains
A. Nucleus
B. Enzymes
C. Cytoplasm
D. Cell wall
- 5 Cell rests of Malassez are seen in
A. In the jaw bones
B. In the cemento enamel junction
C. Among the layers of cementum
D. In the periodontal ligament

SECTION – B

- Q.5 Write Structured Long Essay (1 out of 2) 10
- A What is Periodontal ligament? Describe function and principal fibers of periodontal ligament.
B Describe chronology and morphology of permanent maxillary first molar in detail.
- Q.6 Write Short Essay (3 out of 5) 15
- A Theories of pain transmission
B Bell stage of tooth development
C Ground section of tooth
D Embrasures
E Occlusal outline of permanent mandibular first molar
- Q.7 Answer following short objective questions. 5
- A What is shedding?
B Which tissue of tooth cannot be seen in decalcified section?
C What is bonwill triangle?
D What is mamelon?
E What is tubercle?

- 1 When a successional tooth germ is missing, shedding of deciduous tooth is
 - A. Premature
 - B. Normal
 - C. Delayed
 - D. Never

- 2 Canine fossa is present on
 - A. Permanent maxillary lateral incisor
 - B. Permanent maxillary canine
 - C. Permanent maxillary first premolar
 - D. Permanent mandibular canine

- 3 The "basket cells" are also known as:
 - A. Myoepithelial cells
 - B. Endothelial cells
 - C. Parenchymal cells
 - D. None of the above

- 4 The change in the direction of enamel rods is responsible for appearance of the:
 - A. Gnarled enamel
 - B. Hunter-Schreger bands
 - C. Both of the above
 - D. None of the above

- 5 Weil's zone of pulp is a
 - A. Fibroblast zone
 - B. Mesenchymal cell zone
 - C. Cell-rich zone
 - D. Cell-free zone

SANKALCHAND PATEL UNIVERSITY**BDS 1st Year – EXAMINATION – July-August – 2020****Subject Code: 1DS1010103****Date: 14/10/2020****Subject Name: Dental Anatomy, Embryology & Oral Histology****Time: 3 Hrs.****Total Marks: 70****Instructions:**

1. Use separate answer book for each section.
2. Attempt all questions.
3. Draw diagrams wherever necessary.
4. Figures to the right indicate marks.

SECTION – A

- Q.1 Answer Structured Long Essay (Any 1 out of 2) 10
- A Explain the various stages in development of tooth in detail with suitable diagrams.
- B Classify oral mucous membrane. Discuss in detail about specialized mucosa.
- Q.2 Write Short Essay (Any 3 out of 5) 15
- A Theories of dentinal sensitivity
- B Serous acini.
- C Difference between cellular and acellular cementum.
- D Development of Tongue.
- E Periodontal Ligament Fibres.
- Q.3 Answer Following short question. 5
- A Active and passive eruption.
- B Tome's process
- C Maxillary sinus lining.
- D Enamel spindles
- E What are the lines of von Ebner.
- Q.4 Answer following MCQ's 5
- 1 Acellular cementum is typically found in

a. Coronal half of root	b. Apical half of root
c. Apex of root	d. Entire root
 - 2 Which one of the following is a "pure" serous gland?

a. parotid gland (adult)	b. submandibular gland
c. labial gland	d. sublingual gland
 - 3 Sharpey's fibers are formed principally by

a. osteoblasts	b. fibroblasts
c. odontoblasts	d. cementoblasts
 - 4 The epithelial (Hertwig's) root sheath is involved in the formation of

a. crown	b. root
c. coronal pulp chamber	d. epithelial pearls
 - 5 Keratohyalin is found in the

a. stratum granulosum	b. stratum lucidum
c. stratum corneum	d. stratum reticularis

SECTION – B

- Q.5 Answer Structured Long Essay (Any 1 out of 2) 10
- A Discuss in detail about the chronology and morphology of permanent mandibular right first molar.
 - B Describe the differences between deciduous and permanent dentition. Describe the occlusal morphology of permanent right maxillary first molar.
- Q.6 Write Short Essay (Any 3 out of 5) 15
- A Occlusal surface of Mandibular II Premolar
 - B Chronology of permanent teeth.
 - C Line angle and Point angle.
 - D Differences between permanent maxillary, central and lateral incisors.
 - E Compensating curves.
- Q.7 Answer Following short question. 5
- A Define Cusp
 - B How to write right mandibular central incisor in FDI tooth numbering?
 - C Key of occlusion
 - D Define Fossa
 - E What is the function of incisors
- Q.8 Answer following MCQ's 5
- 1 Mesial slope of buccal cusp is shorter than distal slope in:
 - a) Mandibular 2nd premolar
 - b) Mandibular 1st premolar
 - c) Maxillary canine
 - d) Both a and b
 - 2 Which one of the following dental (enamel) organs is usually the first to develop?
 - a. 1st permanent molar
 - b. permanent central incisor
 - c. deciduous central incisor
 - d. deciduous canine
 - 3 Lingual fossa in mandibular central incisor isshaped?
 - a) W b) V c) U d) None
 - 4 Age of eruption of mandibular lateral incisor?
 - a) 7-8yrs
 - b) 6-7 yrs
 - c) 8-9yrs
 - d) 9-10yrs
 - 5 In a 3 cusp type mandibular 2nd premolar, the ML cusp is.....than the DL cusp.
 - a) Shorter & rounder
 - b) Wider & shorter
 - c) Wider & longer
 - d) Sharper & shorter.

SANKALCHAND PATEL UNIVERSITY**BDS – 1st Year – EXAMINATION – Jun-July – 2019****Subject Code:1DS1010103****Date:19/07/ 2019****Subject Name: Dental Anatomy, Embryology & Oral Histology****Time: 3 hours****Total Marks: 70****Instructions:**

1. Use separate answer book for each section.
2. Attempt all questions.
3. Draw diagrams wherever necessary.
4. Figures to the right indicate marks.

SECTION – A

- Q.1** Answer following Structured Long Essay (1 out of 2) **10**
- A** Describe in detail the morphology of permanent maxillary canine. Add a note on the differences between permanent maxillary and mandibular canine.
- B** Enumerate the differences between deciduous and permanent dentition.
- Q.2** Write following Short Essay (3 out of 5) **15**
- A** Differences between maxillary first and second premolar
- B** Occlusal surface of permanent maxillary first molar
- C** Deglutition
- D** Ground section
- E** Anatomy and functions of maxillary sinus
- Q.3** Answer following short/Objective questions **5**
- A** Mixed dentition
- B** Functions of teeth
- C** Inferior alveolar nerve
- D** Sequence of eruption of permanent teeth
- E** Accessory canal
- Q.4** Answer following MCQ's **5**
- 1 Longer mesial slope is seen in which permanent tooth
 - a. Maxillary canine
 - b. Maxillary first premolar
 - c. Maxillary second premolar
 - d. Mandibular canine
 - 2 Tooth with longest crown
 - a. Maxillary canine
 - b. Maxillary first premolar
 - c. Maxillary first molar
 - d. Mandibular canine
 - 3 Cusp of carabelli is seen on _____ cusp of maxillary first molar
 - a. Mesiobuccal
 - b. Distobuccal
 - c. Mesiopalatal
 - d. Distopalatal
 - 4 Mesiolingual developmental groove is seen on
 - a. Maxillary first premolar
 - b. Maxillary second premolar
 - c. Mandibular first premolar
 - d. Mandibular second premolar
 - 5 Permanent mandibular first molar erupt at the age of
 - a. 6 yrs
 - b. 8 yrs
 - c. 12 yrs
 - d. At birth

SECTION – B

- Q.5** Answer following Structured Long Essay (1 out of 2) **10**
- A** Classify oral mucous membrane. Describe in detail the histology of tongue. Add a note on structure of taste bud.
 - B** Describe in detail the histology of pulp. Add a note on its functions.
- Q.6** Write following Short Essay (3 out of 5) **15**
- A** Theories of tooth eruption
 - B** Bell stage of tooth development
 - C** Nonkeratinocytes
 - D** Amelogenesis
 - E** Primary dentin
- Q.7** Answer following Short/Objective questions **5**
- A** Myoepithelial cell
 - B** Gingival crevice
 - C** Cervical loop
 - D** Dentino enamel junction
 - E** Vermilion border of lip
- Q.8** Answer following MCQ's **5**
- 1** _____ helps in the formation of root
 - a. Dental papilla
 - b. Ameloblast
 - c. Odontoblast
 - d. Hertwig's epithelial root sheath
 - 2** Shape of dentinal tubules is
 - a. Scalloped
 - b. S shaped
 - c. Conical shaped
 - d. Irregular
 - 3** The cytoplasmic processes of cementocytes are directed towards _____
 - a. Enamel
 - b. Dentin
 - c. Pulp
 - d. Periodontal ligament
 - 4** Sharpeys fibers are seen embedded in _____ and _____
 - a. Enamel and dentin
 - b. Dentin and cementum
 - c. Cementum and enamel
 - d. Alveolar bone and cementum
 - 5** Zymogen granules are seen in
 - a. Serous cells
 - b. Mucous cells
 - c. Myoepithelial cells
 - d. All of the above

Internet - Jan - 2019

Sankalchand Patel University
Narsinhbhai Patel Dental College & Hospital, Visnagar
Dental Anatomy, Oral Histology and Embryology

Instructions: Answer all the questions
Draw neat labelled diagram where required
Use H & E pencils for diagrams where required

Section I

Total marks = 25

1. Describe in detail the morphology (labial, palatal, mesial, distal and incisal aspects) of Permanent Maxillary Central Incisor. 1 x 7 = 7
2. **Short essay:** (Answer any three) 3 x 4 = 12
 - a. Difference between Permanent Mandibular Central and Lateral Incisor.
 - b. Lingual aspect of Permanent Maxillary Lateral Incisor
 - c. FDI notation
 - d. Labial aspect of Permanent Maxillary Canine.
 - e. Define ridge, fossa, cusp and fissure.
3. **Short notes:** 6 x 1 = 6
 - a. Anatomical crown
 - b. Dental formula for Permanent dentition
 - c. Functions of teeth
 - d. Pin point depression is
 - a. Cusp c. Pit
 - b. Fossa d. Fissure
 - e. First permanent tooth to erupt
 - a. Maxillary central incisor c. Mandibular central incisor
 - b. Maxillary canine d. Mandibular first molar
 - f. Deciduous mandibular right second molar in FDI
 - a. 75 c. 35
 - b. 85 d. 45

Section II

4. Describe in detail the morphological stages of tooth development. $1 \times 7 = 7$

5. Short essay: (Answer any three) $3 \times 4 = 12$

- a. Enamel lamella.
- b. Primary dentin
- c. Theories of dentin hyper sensitivity
- d. Development of palate
- e. Root development

6. Short notes: $6 \times 1 = 6$

- a. Perikymata
- b. Reparative dentin
- c. HS bands
- d. Inorganic content in enamel
 - a. 96%
 - b. 100%
 - c. 4%
 - d. 0%
- e. Incremental lines _____ are seen in enamel $3 \times 1 = 12$
 - a. Retzius
 - b. Vowen
 - c. Von Ebner
 - d. Salter
- f. Transient structures seen in cap stage of tooth development
 - a. Enamel spindle
 - b. Enamel tuft
 - c. Enamel Knot
 - d. Enamel pearl

7. Short notes: $6 \times 1 = 6$

- a. Perikymata
- b. Reparative dentin
- c. HS band
- d. Inorganic content in enamel
 - a. 96%
 - b. 100%
 - c. 4%
 - d. 0%
- e. Incremental lines _____ are seen in enamel $3 \times 1 = 12$
 - a. Retzius
 - b. Vowen
 - c. Von Ebner
 - d. Salter
- f. Transient structures seen in cap stage of tooth development
 - a. Enamel spindle
 - b. Enamel tuft
 - c. Enamel Knot
 - d. Enamel pearl

SANKALCHAND PATEL UNIVERSITYBDS – 1st Year – EXAMINATION – NOV/DEC – 2019

Subject Code:1DS1010103

Date:13/12/ 2019

Subject Name: Dental Anatomy, Embryology & Oral Histology

Time: 3 hours

Total Marks: 70

Instructions:

1. Use separate answer book for each section.
2. Attempt all questions.
3. Draw diagrams wherever necessary.
4. Figures to the right indicate marks.

SECTION – A

- Q.1** Structured Long Essay (1 out of 2) 10
- A** Compare and contrast permanent maxillary first premolar and mandibular first premolar.
- B** Histophysiology of tooth development.
- Q.2** Write following Short Essay (3 out of 5) 15
- A** Hypocalcified areas of enamel
- B** Zones of pulp
- C** Alveolodental ligaments
- D** Tooth notation systems
- E** Occlusion
- Q.3** Answer following short/Objective questions 5
- A** Lining of maxillary sinus
- B** Theories of tooth eruption
- C** Basket cell
- D** What is successional dentition?
- E** Mamelon
- Q.4** Answer following MCQ's 5
- A** The incremental lines of cementum are
- 1) Poorly mineralized
 - 2) Irregularly mineralized
 - 3) Highly mineralized
 - 4) None of the above
- B** Articular disc of TMJ is made up of
- 1) Elastic cartilage
 - 2) Bony Processes
 - 3) Fibrocartilage
 - 4) Fibrous ligament and hyaline cartilage only
- C** In the teeth curvature of cervical line is
- 1) More mesially than distally
 - 2) More distally than mesially
 - 3) Same mesially and distally
 - 4) varies mesially and distally
- D** The salivary glands are
- 1) Exocrine
 - 2) Endocrine
 - 3) Holocrine
 - 4) None of the above
- E** Permanent tooth with the smallest root is
- 1) Maxillary central incisor
 - 2) Mandibular lateral incisor
 - 3) Mandibular central incisor
 - 4) Maxillary lateral incisor

SECTION – B

- Q.5** Structured Long Essay (1 out of 2) 10
- A** Describe morphology of permanent maxillary first molar.
- B** Define and classify oral mucosa. Describe in detail about masticatory mucosa.
- Q.6** Write following Short Essay (3 out of 5) 15
- A** Ground section of tooth
- B** Theories of pain transmission
- C** Cementoenamel junction
- D** Contact areas in dentition
- E** Functions of teeth
- Q.7** Answer following short/Objective questions 5
- A** Bundle bone
- B** What is shedding?
- C** What is gingival col?
- D** Line angle & point angle
- E** Spillway space
- Q.8** Answer following MCQ's 5
- A** The perikymata is outer extension of
- 1) Enamel spindle
 - 2) Dentinal tubules
 - 3) Enamel lamella
 - 4) Striae of Retzius
- B** The first deciduous tooth to erupt is the
- 1) Mandibular central incisor
 - 2) Mandibular first molar
 - 3) Maxillary first molar
 - 4) Maxillary central incisor
- C** In the transverse section of tooth, the incremental lines of Retzius appear as
- 1) Oblique line
 - 2) Cracks
 - 3) Concentric circle
 - 4) Scallop
- D** Other name of Tomes' fiber is
- 1) Tomes' granular layer
 - 2) Tomes' process
 - 3) Odontoblast process
 - 4) Sharpey's fiber
- E** How many lobes are required for development of maxillary first premolar
- 1) 4
 - 2) 3
 - 3) 5
 - 4) 2
