Rajiv Gandhi University of Health Sciences, Karnataka I B.D.S Degree Examination – 29 MAR 2021

Time: Three Hours Max. Marks: 70 Marks

HUMAN ORAL AND DENTAL ANATOMY, EMBRYOLOGY, PHYSIOLOGY AND HISTOLOGY.

Your answers should be specific to the questions asked Draw neat labeled diagrams wherever necessary

LONG ESSAYS 2X10=20 Marks

- Q.1 Describe the different notation systems of teeth, discuss the elevations and depression on the tooth surface.
- Q.2 Structure of Dentin.

SHORT ESSAYS 8X5=40 Marks

- Q.3 Seeding theory.
- Q.4 Zones of pulp.
- Q.5 Principle fibers of periodontal ligament.
- Q.6 Non-Keratinocytes.
- Q.7 Occlusal aspect of mandibular 1st premolar.
- Q.8 Development of tongue.
- Q.9 Differentiate between cellular and Acellular cementum.
- Q.10 Life cycle of Ameloblasts.

SHORT ANSWERS 2X5=10 Marks

- Q.11 Basket cells. (Myoepithelial cells)
- Q.12 Submerged teeth.
- Q.13 Pulp stones.
- Q.14 Define Eruption and Shedding.
- Q.15 Line angles.

Rajiv Gandhi University of Health Sciences, Karnataka I B.D.S Degree Examination - 24 NOV 2020

Time: Three Hours Max. Marks: 70 Marks

HUMAN ORAL AND DENTAL ANATOMY, EMBRYOLOGY, PHYSIOLOGY AND HISTOLOGY.

Your answers should be specific to the questions asked Draw neat labeled diagrams wherever necessary

LONG ESSAY $(2 \times 10 = 20M)$

- Q.1. Classify salivary glands. Write in detail the ductal system. chronology
- Q.2. Describe in detail the morphology of mandibular 1" premolar. Add a note on its

SHORT ESSAY $(8 \times 5 = 40 \text{M})$

- Q.3 Dead tracts and sclerotic dentine. Types of dentin in cross section
- Q.4. Age changes in Enamel.
- Q.5. Principle fibers of periodontal ligament
- Q.6. Theories of mineralization.

RDS

- Q.7. Functions and histology of maxillary sinus.
- Q.8. Histo-physiological stages of tooth development.
- Q.9. Development of tongue.
- Q.10. Dento-gingival junction.

SHORT ANSWERS (5X2=10M)

- Q.11. Non-Keratinocytes.
- Q.12. Hyaline layer of Hopewell Smith.
- Q.13. Enamel spindle.
- Q.14. Meckel's cartilage.
- Q.15. Cingulum.

I B.D.S Degree Examination - June 2019

Time: 3 Hrs. [Max.Marks: 70]

HUMAN ORAL AND DENTAL ANATOMY, EMBRYOLOGY, PHYSIOLOGY & HISTOLOGY

(RS-3)

QP Code: 1181

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary.

LONG ESSAY

- 1. Describe the fibers of periodontal ligament and write about the synthetic and resorptive cells of periodontal ligament.
- 2. Describe in detail morphology of permanent mandibular first molar.

SHORT ESSAY

- Write in brief about non keratinocytes.
- Discuss layers in keratinized epithelium.
- Transient structures of tooth development.
- Write in brief about lingual aspect of permanent mandibular canine.
- Describe types of cementoenamel junction
- Discuss the age changes of pulp.
- Write in brief histology of temperomandibular joint.
- Discuss theories of dentin hypersensitivity.

- Write in brief about Resting and Reversal lines.
- Enumerate the functions of maxillary sinus.
- Draw well labelled diagram of enamel lamellae and tufts.
- Write in brief about Curve of spee.
- Define Cingulum and fossa.

I B.D.S Degree Examination - Dec 2018

Time: 3 Hrs. [Max.Marks: 70]

HUMAN ORAL AND DENTAL ANATOMY, EMBRYOLOGY, PHYSIOLOGY & HISTOLOGY

(RS-3)

QP Code: 1181

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary.

- *LONG ESSAY*
- Describe in detail the morphology of Mandibular first premolar.
- Classify salivary glands.
- Describe in detail the ductal system of salivary glands.
- *SHORT ESSAY*
- Odontoblast.
- Intercellular junctions.
- Pulp stones.
- Principal fibers of periodental ligament.
- Enamel lamellae.
- Lingual aspect of permanent maxillary canine.
- Systems of dental notation.
- Oral phase of deglutition.
- *SHORT ANSWERS*
- Incremental lines.
- Taste buds.
- Ridge.
- Seeding theory.
- Stellate reticulum.

I B.D.S Degree Examination – July 2018

Time: 3 Hrs. [Max.Marks: 70]

HUMAN ORAL AND DENTAL ANATOMY, EMBRYOLOGY, PHYSIOLOGY & HISTOLOGY

(RS-3)

QP Code: 1181

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary.

LONG ESSAY

- Enumerate and write in detail about the morphological stages in tooth development.
- Discuss the morphology of permanent maxillary canine. Add a note on its chronology.

SHORT ESSAY

- Write the differences between Primary and permanent Dentition.
- Describe the histology of serous acini.
- Discuss the functions of saliva.
- Occlusal morphology of permanent maxillary first molar.
- Discuss incremental lines of dentin and enamel.
- Discuss function and lining of maxillary sinus.
- Tooth Numbering Systems.
- Principal fibres of periodontal ligament.

- Pulp stone.
- Define cusp,fossa.
- Functions of reduced enamel epithelium.
- Cemento Enamel junction.
- Tomes granular layer.

I B.D.S Degree Examination - Dec 2017

Time: 3 Hrs. [Max.Marks: 70]

HUMAN ORAL AND DENTAL ANATOMY, EMBRYOLOGY, PHYSIOLOGY & HISTOLOGY

(RS-3)

QP Code: 1181

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary.

LONG ESSAYS

- Describe the development of Dentogingival Junction. Add a note on Junctional Epithelium.
- Describe the chronology and morphological aspects of Permanent mandibular second prermolar. Add a note on Arch Traits.

SHORT ESSAYS

- Derivatives of Neural crest Cells.
- Calcifications.
- Cap stage.
- Cementoblasts and cementocytes.
- Histology of Bone.
- Mechanism of tooth Eruption.
- Gingival Fibers.
- Functions of periodontal ligament.

- Cingulum.
- Derivatives of dental papilla and dental sac.
- Embrasures.
- Incremental lines of Dentin.
- Mamelons.



I B.D.S Degree Examination - Aug 2017

Time: 3 Hrs. [Max.Marks: 70]

HUMAN ORAL AND DENTAL ANATOMY, EMBRYOLOGY, PHYSIOLOGY & HISTOLOGY

(RS-3)

QP Code: 1181

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary.

LONG ESSAY

- Classify oral mucous membrane and write in detail about histology of masticatory mucosa.
- Discuss the morphology of permanent mandibular first molar. Add a note on its chronology.

SHORT ESSAY



- Histology of gingiva.
- Describe the histology of mixed salivary gland.
- Discuss the functions of periodontal ligament.
- Crown morphology of permanent maxillary canine.
- Discuss age changes in dentin, enamel and pulp.
- Theories of tooth eruption.
- Tooth Numbering systems.
- Deglutition.

- Shedding of teeth.
- Fate of dental lamina.
- Hertwigs epithelial root sheath.
- Cementoenamel junction.
- Interglobular dentin.

I B.D.S Degree Examination - Dec 2016

Time: 3 Hrs. [Max.Marks: 70]

HUMAN ORAL AND DENTAL ANATOMY, EMBRYOLOGY, PHYSIOLOGY & HISTOLOGY

(RS-3)

QP Code: 1181

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary.

LONG ESSAY

- Enumerate the zones of dental pulp. Describe the histology of dental pulp. Add a note on the blood vessels of the pulp.
- Describe the buccal, palatal, mesial, distal and occlusal aspects of maxillary first premolar. Add a note on its chronology.

SHORT ESSAY

- Organizing and formative stages in the life cycle of ameloblasts
- Interglobular dentin.

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- Types of cementum.
- Internal reconstruction of bone.
- Myoepithelial cells.
- Matrix vesicle theory of mineralization.
- Decalcification of tissue specimen.
- Development of face.

- Perikymata.
- Dead tracts
- Submerged tooth.
- Compensatory curves of dental arch.
- Dental formula.

I B.D.S Degree Examination - June 2016

Time: 3 Hrs. [Max.Marks: 70]

HUMAN ORAL AND DENTAL ANATOMY, EMBRYOLOGY, PHYSIOLOGY & HISTOLOGY

(RS-3)

QP Code: 1181

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary.

LONG ESSAY

- Enumerate the stages in the life cycle of ameloblasts. Describe in detail the events in amelogenesis.
- Describe the buccal, palatal and Occlusal surface of permanent maxillary first molar. List five important differences from permanent maxillary second molar.

SHORT ESSAY

- Early bell stage of tooth development.
- Structure of dentinal tubules.
- Cells of dental pulp.
- Alveolar bone proper.
- Vermilion border of lip.
- Theories of mineralization.
- Fixation of tissue specimen.
- Development of tongue.

- Age changes in dentin.
- Incremental lines of Salter.
- Epithelial attachment.
- Mast cells.
- Transverse ridge.



I B.D.S Degree Examination - Dec 2015

Time: 3 Hrs. [Max.Marks: 70]

HUMAN ORAL AND DENTAL ANATOMY, EMBRYOLOGY, PHYSIOLOGY & HISTOLOGY

(RS-3)

QP Code: 1181

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary.

LONG ESSAYS

- Describe in detail the morphology of the mandibular first molar. Add a note on its Chronology.
- Enumerate the stages in the lifecycle of ameloblast. Describe in detail the events in amelogenesis.



- Microscopic appearance of Gingiva.
- Myoepithelial Cells.
- Principal fibres of periodontal Ligament.
- Root formation.
- Tooth numbering systems.
- Oral phase of Deglutition
- Osteoclast.
- Theories of dentin Sensitivity.
- *SHORT ANSWERS*
- Cellular Cementum.
- Dead tracts.
- Lining of Maxillary Sinus.
- Oblique Ridge.
- Zone of Weil.



I B.D.S Degree Examination – July 2015

Time: 3 Hrs. [Max.Marks: 70]

HUMAN ORAL AND DENTAL ANATOMY, EMBRYOLOGY, PHYSIOLOGY & HISTOLOGY

(RS-3)

QP Code: 1181

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary.

LONG ESSAYS

- Describe in detail the morphology of the Maxillary first premolar. Add a note on its chronology.
- Describe the Light and Ultra microscopic appearance of Gingiva.

SHORT ESSAYS

- Cementoenamel junctions.
- Hypocalcified areas of Enamel.
- Functions of Pulp.
- Booster theory of Mineralization.
- Ducts of Salivary Glands.
- Occlusal surface of permanent maxillary first Molar.
- Primary Dentin.
- Taste buds.

- Bundle Bone.
- Fibroblasts.
- Functions of Maxillary Sinus.
- Mamelons.
- Maturative stage in Life cycle of Ameloblast.



I B.D.S Degree Examination - Dec 2014

Time: 3 Hrs. [Max.Marks: 70]

HUMAN ORAL AND DENTAL ANATOMY, EMBRYOLOGY, PHYSIOLOGY & HISTOLOGY

(RS-3)

QP Code: 1181

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary.

LONG ESSAYS

- Describe in detail the Ductoacinar unit of Salivary Glands and add a note on composition and functions of saliva.
- Describe the morphological aspects of Permanent Maxillary Central Incisor. Add a note on the types of Traits.

SHORT ESSAYS

- Lining Mucosa.
- Anatomy and histology of Temporomandibular Joint.
- Dental Lamina and its fate.
- Types of Bone.
- Tooth numbering systems.
- Theories of Tooth eruption.
- Cementogenesis.
- Pain.

SHORT ANSWERS

- Overjet and Overbite.
- Glands of Blandin and Nuhn

Birbeck's Granules.

- Lamina Dura.
- Enamel Knot, cord and Niche.

I B.D.S Degree Examination - June 2014

Time: 3 Hrs. [Max.Marks: 70]

HUMAN ORAL AND DENTAL ANATOMY, EMBRYOLOGY, PHYSIOLOGY & HISTOLOGY

(RS-3)

QP Code: 1181

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary.

LONG ESSAYS

- Describe in detail the mechanism of Tooth Eruption.
- Describe the chronology and morphological aspects of Permanent Maxillary second premolar.

SHORT ESSAYS

- Root formation.
- Cells of the Periodontal Ligament.
- Difference between Maxillary first and second Premolar.
- Histology of Shedding.
- Mastication.
- Development of Mandible.
- Specialized Mucosa.
- Histology of Salivary Glands.

- Line Angles and Point Angles.
- Morula.
- Freeway Space.
- Incremental lines of Retzius.
- Interglobular Dentin.

I B.D.S Degree Examination - Dec 2013

Time: 3 Hrs. [Max.Marks: 70]

HUMAN ORAL AND DENTAL ANATOMY, EMBRYOLOGY, PHYSIOLOGY & HISTOLOGY

(RS-3)

QP Code: 1181

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary.

LONG ESSAY

- Enumerate the stages in tooth development. Discuss in detail about amelogenesis.
- Describe the morphology of permanent maxillary first molar. Add a note on its chronology.

SHORT ESSAY

- Specialized oral mucosa.
- Histology of minor salivary glands.
- Discuss the functions and histology of maxillary sinus.
- Crown morphology of permanent maxillary first premolar.
- Discuss incremental lines of dentin and enamel.
- Shedding of teeth.
- Tooth numbering systems.
- Principal fibres of periodontal ligament.

- Pulp stone.
- Define cingulum, ridge and fossa.
- Enamel lamellae.
- Interglobular dentin.
- Non keratinocytes.

I B.D.S Degree Examination – June 2013

Time: 3 Hrs. [Max.Marks: 70]

HUMAN ORAL AND DENTAL ANATOMY, EMBRYOLOGY, PHYSIOLOGY & HISTOLOGY

(RS-3)

QP Code: 1181

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary.

LONG ESSAY

- Describe in detail the morphology of permanent Mandibular first molar.
- Describe in detail the hypocalcified structures in Enamel.

SHORT ESSAY

- Cellular cementum.
- Vermilion zone of lip.
- Myoepithelial cell.
- Age changes in dentin.
- Periodontal ligament traction theory.
- Differences between the permanent maxillary and mandibular canine.
- Occlusal surface of maxillary first premolar.
- Masseter.

- Fixation.
- Lamina dura.
- Medial pterygoid.
- Dental papilla.
- Meckel's cartilage.

I B.D.S Degree Examination - June 2012

Time: 3 Hrs. [Max.Marks: 70]

HUMAN ORAL AND DENTAL ANATOMY, EMBRYOLOGY, PHYSIOLOGY & HISTOLOGY

(RS-3)

QP Code: 1181

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary.

LONG ESSAY

- Explain in detail the life cycle of Ameloblasts with suitable Diagrams.
- Describe the morphology of permanent maxillary first molar. Add a note on chronology of maxillary permanent first molar.

SHORT ESSAY

- Mandibular nerve.
- Dentin hypersensitivity theories.
- Keratinized mucosa.
- Histology of mucous salivary gland.
- Functions of periodontal ligament.
- Contact areas and embrasures.
- Maxillary sinus histology and functions.
- Development of palate.

- Osteoblast.
- Cellular cementum.
- Age changes in enamel.
- Hertwigs epithelial root sheath.
- Define: Ridge, Fossa.



I B.D.S Degree Examination - Dec 2012

Time: 3 Hrs. [Max.Marks: 70]

HUMAN ORAL AND DENTAL ANATOMY, EMBRYOLOGY, PHYSIOLOGY & HISTOLOGY

(RS-3)

QP Code: 1181

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary.

LONG ESSAY

- Classify salivary glands and ducts. Explain histology of serous salivary gland.
- Explain the morphology of Mandibular second premolar with suitable diagrams.

SHORT ESSAY

- Incremental lines of Enamel, Dentin, Cementum, Bone.
- Papillae of tongue.
- Ameloblasts in formative stage.
- Principal fibers of periodontal ligament.
- Cemento enamel junction.
- Alveolar bone proper.
- Age changes in pulp.
- Theories of tooth eruption.
- *SHORT ANSWERS*
- Odontoclast.
- Interglobular dentin.
- Functions of maxillary sinus.
- Name any four nonkeratinocytes.
- Predentin.

I B.D.S Degree Examination - June /July 2011

Time: 3 Hrs. [Max Marks: 70]

HUMAN ORAL AND DENTAL ANATOMY, EMBRYOLOGY, PHYSIOLOGY & HISTOLOGY

(RS-3)

QP Code: 1181

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary.

LONG ESSAY*

- Describe in detail the morphology of permanent maxillary canine
- Classify oral mucous membrane. Write in detail the macro and microscopic features of Gingiva

SHORT ESSAY



- Advanced bell stage of tooth development
- Functions of Pulp
- Striated duct
- Age change in dentin
- Nonkeratinocytes
- Occlusal aspect of permanent maxillary first molar
- Differences between deciduous and permanent teeth
- Factors affecting calcium metabolism in the body

- Circumvallate papilla
- Howships lacunae
- Curve of spee
- Lateral pterygoid
- Epithelial rests

I B.D.S Degree Examination – Dec 2011

Time: 3 Hrs. [Max Marks: 70]

HUMAN ORAL AND DENTAL ANATOMY, EMBRYOLOGY, PHYSIOLOGY & HISTOLOGY

(RS-3)

QP Code: 1181

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary.

LONG ESSAY

- Brief the stages in the development af tooth. Explain the Advanced bell stage with suitable diagram.
- Write the difference between permanent and deciduous teeth.

SHORT ESSAY

- Histology of pulp.
- Nerve supply of tongue.
- Physical characteristics and chemical properties of enamel.
- Functions of saliva.
- Gingiva.
- Primary, secondary and tertiary dentin.
- Cellular cementum.
- Development of upper and lower lip.

- Normal serum calcium level.
- Myoepithelial cells.
- Theories of tooth eruption.
- Decalcifying agents.
- Define- fissure, ridge.



I B.D.S Degree Examination - June/July 2010

Time: 3 Hrs. [Max.Marks: 70]

HUMAN ORAL AND DENTAL ANATOMY, EMBRYOLOGY, PHYSIOLOGY & HISTOLOGY

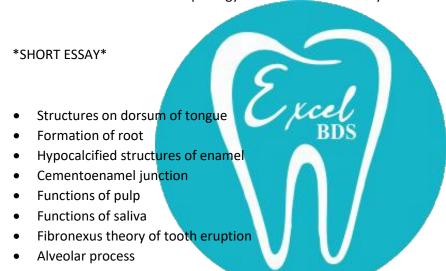
(RS-3)

QP Code: 1181

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary.

LONG ESSAY

- Classify Oral mucosa. Write in detail on Masticatory mucosa
- Describe in detail the morphology of Permanent Maxillary Canine



- FDI System
- Cusp of Carabelli
- Interglobular dentin
- Cell rests of Malassez
- Mental nerve

I B.D.S Degree Examination - Dec 2010

Time: 3 Hrs. [Max.Marks: 70]

HUMAN ORAL AND DENTAL ANATOMY, EMBRYOLOGY, PHYSIOLOGY & HISTOLOGY

(RS-3)

QP Code: 1181

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary.

LONG ESSAY

- Describe in detail the morphology of Permanent Maxillary first premolar.
- Describe the histological structures of pulp.

SHORT ESSAY

- Functional and histological differences between keratinized and non keratinized mucosa.
- Types of dentin in cross section.
- Functions of striated duct.
- Hypercementosis.
- Elevations on tooth surface.
- Muscles of mastication.
- Dental lamina.
- Theories of calcification.

- Functions of teeth.
- Pit and fissure.
- Primary and secondary cuticles.
- Histology of maxillary sinus.
- Osteon.

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