

Aug - 17

# Rajiv Gandhi University of Health Sciences

B.D.S Degree Examination – DEC-2018

I Year (RS3 Only)

II Year (OS, RS & RS2 Only)

Hrs.

[Max.]

**Human Oral & Dental Anatomy, Embryology,  
Physiology & Histology**

**Code: 1181**

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

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**2 X 10**

e in detail the morphology of Mandibular first premolar



# Rajiv Gandhi University of Health Sciences

B.D.S Degree Examination – DEC-2018

I Year (RS3 Only)  
II Year (OS, RS & RS2 Only)

Time: 3 Hrs.

[Max. Marks: 70]

## Human Oral & Dental Anatomy, Embryology, Physiology & Histology

Code: 1181

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

### LONG ESSAY

1. Describe in detail the morphology of Mandibular first premolar
2. Classify salivary glands. Describe in detail the ductal system of salivary glands

2 X 10 = 20 Marks

### SHORT ESSAY

3. Odontoblast
4. Intercellular junctions
5. Pulp stones
6. Principal fibers of periodontal ligament
7. Enamel lamellae
8. Lingual aspect of permanent maxillary canine
9. Systems of dental notation
10. Oral phase of deglutition

8 X 5 = 40 Marks

### SHORT ANSWERS

11. Incremental lines
12. Taste buds
13. Ridge
14. Seeding theory
15. Stellate reticulum

5 X 2 = 10 Marks

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*July-2018*  
**Rajiv Gandhi University of Health Sciences**

**B.D.S Degree Examination – JULY-2018**

**I Year (RS3 Only)**  
**II Year (OS, RS & RS2 Only)**

Time: 3 Hrs.

[Max. Marks: 70]

**Human Oral & Dental Anatomy, Embryology,  
Physiology & Histology**

**Code: 1181**

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

**LONG ESSAY**

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

**2 X 10 = 20 Marks**

**SHORT ESSAY**

3. Write the differences between Primary and Permanent Dentition
4. Describe the histology of serous acini
5. Discuss the functions of saliva
6. Occlusal morphology of permanent maxillary first molar
7. Discuss incremental lines of dentin and enamel
8. Discuss function and lining of maxillary sinus
9. Tooth Numbering Systems
10. Principal fibres of periodontal ligament

**8 X 5 = 40 Marks**

**SHORT ANSWERS**

11. Pulp stone
12. Define cusp, fossa
13. Functions of reduced enamel epithelium
14. Cemento-Enamel junction
15. Tomes granular layer

**5 X 2 = 10 Marks**

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# Rajiv Gandhi University of Health Sciences, Karnataka

B.D.S Degree Examination – DEC-2017

I Year (RS3 Only)

II Year (OS, RS & RS2 Only)

Time: Three Hours

Max. Marks: 70 Marks

## Human Oral & Dental Anatomy, Embryology, Physiology & Histology

Code: 1181

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

### LONG ESSAYS

1. Describe the development of Dentogingival Junction. Add a note on Junctional Epithelium.
2. Describe the chronology and morphological aspects of Permanent Mandibular second premolar. Add a note on Arch Traits.

2 x 10 = 20 Marks

### SHORT ESSAYS

3. Derivatives of Neural Crest Cells
4. Calcifications
5. Cap stage
6. Cementoblasts and Cementocytes
7. Histology of Bone
8. Mechanism of Tooth Eruption
9. Gingival Fibers
10. Functions of periodontal ligament

8 x 5 = 40 Marks

### SHORT ANSWERS

11. Cingulum
12. Derivatives of dental papilla and dental sac
13. Embrasures
14. Incremental lines of Dentin
15. Mamelons

5 x 2 = 10 Marks

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*Dec 2014*  
**Rajiv Gandhi University of Health Sciences, Karnataka**

**38**

**I B.D.S Degree Examination - DEC-2014**

**Time: Three Hours**

**Max. Marks: 70 Marks**

**HUMAN ORAL & DENTAL ANATOMY, EMBRYOLOGY, PHYSIOLOGY & HISTOLOGY**

**Q.P. CODE: 1181 (RS3)**

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

**LONG ESSAYS**

**2 x 10 = 20 Marks**

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

**SHORT ESSAYS**

**8 x 5 = 40 Marks**

3. Lining Mucosa
4. Anatomy and histology of Temporomandibular Joint
5. Dental Lamina and its fate
6. Cementogenesis
7. Types of Bone
8. Tooth numbering systems
9. Theories of Tooth eruption
10. Pain

**SHORT ANSWERS**

**5 x 2 = 10 Marks**

11. Overjet and Overbite
12. Glands of Blandin and Nuhn
13. Birbeck's Granules
14. Lamina Dura
15. Enamel Knot, Cord and Niche

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June 2014

**Rajiv Gandhi University of Health Sciences, Karnataka**

II B.D.S Degree Examination - June 2014

**Time: Three Hours**

Max. Marks: 100 Marks

(37)

**HUMAN ORAL ANATOMY & PHYSIOLOGY INCLUDING EMBRYOLOGY & HISTOLOGY (RS & RS2)**

**Q.P. CODE: 1158**

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

**LONG ESSAYS**

1. Classify oral mucosa. Describe the light microscopic and ultra-structural features of keratinized stratified squamous epithelium of oral mucosa.
2. Describe the labial and palatal surfaces of permanent maxillary canine. List the important differences between the permanent maxillary and mandibular canine.

**2 x 10 = 20 Marks**

**SHORT ESSAYS**

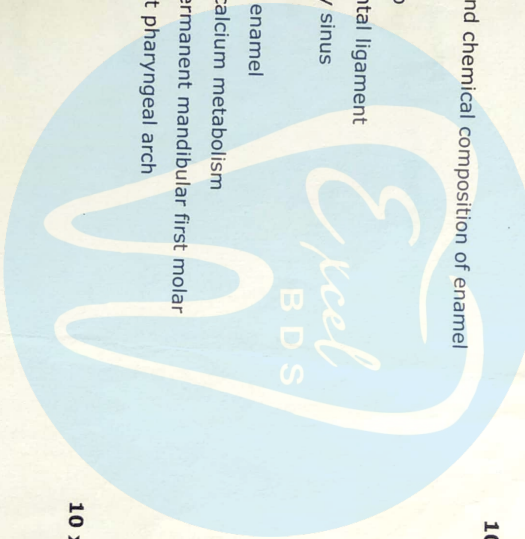
3. Physical properties and chemical composition of enamel
4. Tertiary dentin
5. Nerves of dental pulp
6. Functions of periodontal ligament
7. Histology of maxillary sinus
8. Striated duct
9. Surface structures of enamel
10. Role of hormones in calcium metabolism
11. Occlusal surface of permanent mandibular first molar
12. Derivatives of the first pharyngeal arch

**10 x 5 = 50 Marks**

**SHORT ANSWERS**

13. Tomes process
14. Tomes granular layer
15. Age changes in dental pulp
16. Hypercementosis
17. Digestive function of saliva
18. Pre eruptive tooth movement
19. Odontoclasts
20. Fate of dental lamina
21. Line angles and point angles of a tooth
22. Oblique ridge

**10 x 3 = 30 Marks**



*June 2014*  
**Rajiv Gandhi University of Health Sciences, Karnataka**

**Time: Three Hours**  
**I B.D.S Degree Examination - June 2014**  
**Max. Marks: 70 Marks**  
**HUMAN ORAL & DENTAL ANATOMY, EMBRYOLOGY, PHYSIOLOGY & HISTOLOGY**

**Q.P. CODE: 1181 (RS3)**

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

**(29)**

**LONG ESSAYS**

**2 x 10 = 20 Marks**

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

**SHORT ESSAYS**

**8 x 5 = 40 Marks**

3. Root formation
4. Cells of the Periodontal Ligament
5. Difference between Maxillary 1<sup>st</sup> and 2<sup>nd</sup> Premolar
6. Histology of Shedding
7. Mastication
8. Development of Mandible
9. Specialized Mucosa
10. Histology of Salivary Glands

**SHORT ANSWERS**

**5 x 2 = 10 Marks**

11. Line Angles and Point Angles
12. Morula
13. Freeway Space
14. Incremental Lines of Retzius
15. Interglobular Dentin

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Dec 2013

24

[Max. Marks: 70]

(RS-3)

24)

## LONG ESSAY

- 2 X 10 = 20 Marks**

**8 X 5 = 40 Marks**

- ## SHORT ANSWERS

- 5 X 2 = 10 Marks**

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**Rajiv Gandhi University of Health Sciences**

I B.D.S Degree Examination – June 2013

Time: 3 Hrs.

[Max. Marks : 70]

**HUMAN ORAL & 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 in detail the morphology of permanent Mandibular first molar
2. Describe in detail the hypocalcified structures in Enamel

**2 X 10 = 20 Marks**

**SHORT ESSAY**

3. Cellular cementum
4. Vermilion zone of lip
5. Myoepithelial cell
6. Age changes in dentin
7. Periodontal ligament traction theory
8. Differences between the permanent maxillary and mandibular canine
9. Occlusal surface of maxillary first premolar
10. Masseter

**8 X 5 = 40 Marks**

**SHORT ANSWERS**

11. Fixation
12. Lamina dura
13. Medial pterygoid
14. Dental papilla
15. Meckel's cartilage

**5 X 2 = 10 Marks**

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June 2013

23

Aug - 17

70

**Rajiv Gandhi University of Health Sciences**  
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**

**2 X 10 = 20 Marks**

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

**SHORT ESSAY**

**8 X 5 = 40 Marks**

3. Histology of gingiva
4. Describe the histology of mixed salivary gland
5. Discuss the functions of periodontal ligament
6. Crown morphology of permanent maxillary canine
7. Discuss age changes in dentin, enamel and pulp
8. Theories of tooth eruption
9. Tooth Numbering Systems
10. Deglutition

**SHORT ANSWERS**

**5 X 2 = 10 Marks**

11. Shedding of teeth
12. Fate of dental lamina
13. Hertwigs epithelial root sheath
14. Cemento-enamel junction
15. Interglobular dentin

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*Dec-16*  
**Rajiv Gandhi University of Health Sciences**

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**

**LONG ESSAY**

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

**2 X 10 = 20 Marks**

1. Enumerate the zones of dental pulp. Describe the histology of dental pulp. Add a note on the blood vessels of pulp.
2. Describe the buccal, palatal, mesial, distal and occlusal aspects of maxillary first premolar. Add a note on its chronology.
- 3.

**SHORT ESSAY**

**8 X 5 = 40 Marks**

3. Organizing and formative stages in the life cycle of ameloblasts
4. Interglobular dentin
5. Types of cementum
6. Internal reconstruction of bone
7. Myoepithelial cells
8. Matrix vesicle theory of mineralization
9. Decalcification of tissue specimen
10. Development of face

**SHORT ANSWERS**

**5 X 2 = 10 Marks**

1. Perikymata
2. Dead tracts
3. Submerged tooth
4. Compensatory curves of dental arch
5. Dental formula

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53

Rajiv Gandhi University of Health Sciences  
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**

**2 X 10 = 20 Marks**

1. 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**

**8 X 5 = 40 Marks**

3. Early bell stage of tooth development
4. Structure of dentinal tubules
5. Cells of dental pulp
6. Alveolar bone proper
7. Vermilion border of lip
8. Theories of mineralization
9. Fixation of tissue specimen
10. Development of tongue

**SHORT ANSWERS**

**5 X 2 = 10 Marks**

11. Age changes in dentin
12. Incremental lines of Salter
13. Epithelial attachment
14. Mast cells
15. Transverse ridge

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# Rajiv Gandhi University of Health Sciences

I B.D.S Degree Examination – JUNE 2016

50

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

2 X 10 = 20 Marks

1. 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

8 X 5 = 40 Marks

3. Early bell stage of tooth development
4. Structure of dentinal tubules
5. Cells of dental pulp
6. Alveolar bone proper
7. Vermilion border of lip
8. Theories of mineralization
9. Fixation of tissue specimen
10. Development of tongue

### SHORT ANSWERS

5 X 2 = 10 Marks

11. Age changes in dentin
12. Incremental lines of Salter
13. Epithelial attachment
14. Mast cells
15. Transverse ridge

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Dec-2015

46

# Rajiv Gandhi University of Health Sciences, Karnataka

**I B.D.S Degree Examination - DECEMBER 2015**

**Max. Marks: 70 Marks**

**Time: Three Hours**  
**HUMAN ORAL & DENTAL ANATOMY, EMBRYOLOGY, PHYSIOLOGY & HISTOLOGY**

**Q.P. CODE: 1181 (RS3)**

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

## **LONG ESSAYS**

**2 x 10 = 20 Marks**

1. Describe in detail the morphology of the Mandibular First Molar. Add a note on its Chronology.
2. Enumerate the stages in the lifecycle of ameloblast. Describe in detail the events in amelogenesis.

## **SHORT ESSAYS**

**8 x 5 = 40 Marks**

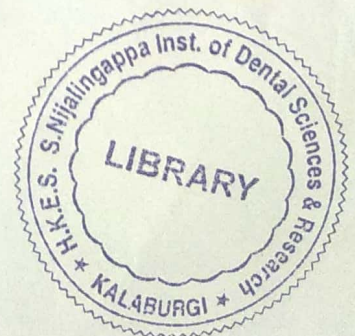
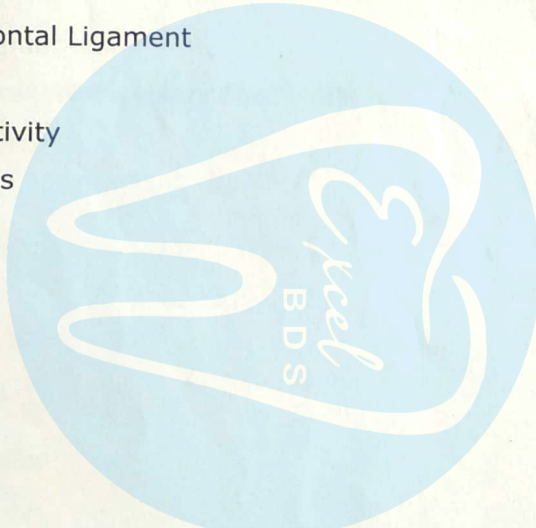
3. Microscopic appearance of Gingiva
4. Myoepithelial Cells
5. Oral phase of Deglutition
6. Osteoclast
7. Principal fibres of Periodontal Ligament
8. Root formation
9. Theories of Dentin Sensitivity
10. Tooth numbering systems

## **SHORT ANSWERS**

**5 x 2 = 10 Marks**

11. Cellular Cementum
12. Dead tracts
13. Lining of Maxillary Sinus
14. Oblique Ridge
15. Zone of Weil

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# Rajiv Gandhi University of Health Sciences, Karnataka

I B.D.S Degree Examination - JULY 2015

Time: Three Hours

Max. Marks: 70 Marks

**HUMAN ORAL & DENTAL ANATOMY, EMBRYOLOGY, PHYSIOLOGY & HISTOLOGY**

**Q.P. CODE: 1181 (RS3)**

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

## LONG ESSAYS

2 x 10 = 20 Marks

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

## SHORT ESSAYS

8 x 5 = 40 Marks

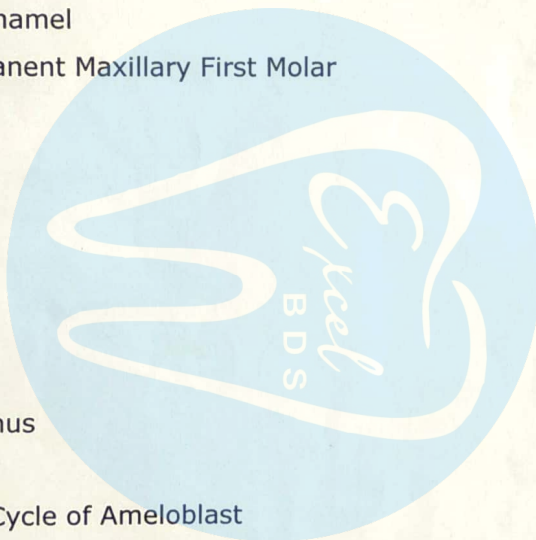
3. Cemento-Enamel Junctions
4. Booster theory of Mineralization
5. Ducts of Salivary Glands
6. Hypo-calcified areas of Enamel
7. Occlusal surface of Permanent Maxillary First Molar
8. Primary Dentin
9. Taste buds
10. Functions of Pulp

## SHORT ANSWERS

5 x 2 = 10 Marks

11. Bundie Bone
12. Fibroblasts
13. Functions of Maxillary Sinus
14. Mamelons
15. Maturative stage in Life Cycle of Ameloblast

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BDS - June - 2012

1181\_2012\_2\_S262

# Rajiv Gandhi University of Health Sciences

I B.D.S Degree Examination - June / July 2012

14

Time: 3 Hrs.

[Max. Marks : 70]

## HUMAN ORAL & 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

2 X 10 = 20 Marks

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

### SHORT ESSAY

8 X 5 = 40 Marks

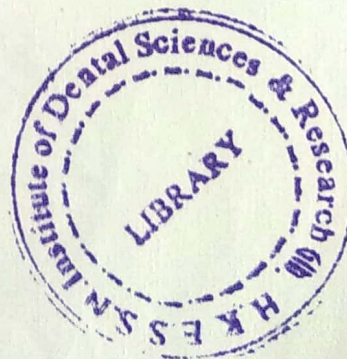
3. Mandibular nerve
4. Dentin hypersensitivity theories
5. Keratinized mucosa
6. Histology of mucous salivary gland
7. Functions of periodontal ligament
8. Contact areas and embrasures
9. Maxillary sinus - histology and functions
10. Development of palate

### SHORT ANSWERS

5 X 2 = 10 Marks

11. Osteoblast
12. Cellular cementum
13. Age changes in enamel
14. Hertwigs epithelial root sheath
15. Define: Ridge, Fossa

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BDS - June - 2012

1181\_2012\_2\_S262

# Rajiv Gandhi University of Health Sciences

I B.D.S Degree Examination - June / July 2012

9

Time: 3 Hrs.

[Max. Marks : 70]

## HUMAN ORAL & 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

2 X 10 = 20 Marks

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

### SHORT ESSAY

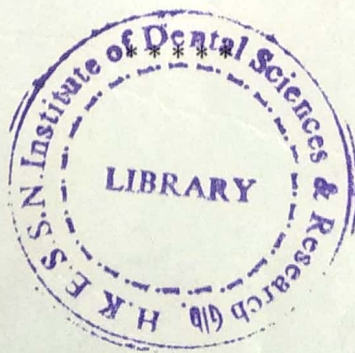
8 X 5 = 40 Marks

3. Mandibular nerve
4. Dentin hypersensitivity theories
5. Keratinized mucosa
6. Histology of mucous salivary gland
7. Functions of periodontal ligament
8. Contact areas and embrasures
9. Maxillary sinus - histology and functions
10. Development of palate

### SHORT ANSWERS

5 X 2 = 10 Marks

11. Osteoblast
12. Cellular cementum
13. Age changes in enamel
14. Hertwigs epithelial root sheath
15. Define: Ridge, Fossa





BDS - Dec - 2012

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# Rajiv Gandhi University of Health Sciences

I B.D.S Degree Examination - Dec 2012

9

Time: 3 Hrs.

[Max. Marks : 70]

## HUMAN ORAL & 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

2 X 10 = 20 Marks

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

### SHORT ESSAY

8 X 5 = 40 Marks

3. Incremental lines. (Enamel, Dentin, Cementum & Bone)
4. Papillae of tongue
5. Ameloblasts in formative stage
6. Principal fibers of periodontal ligament
7. Cemento enamel junction
8. Alveolar bone proper
9. Age changes in pulp
10. Theories of tooth eruption

### SHORT ANSWERS

5 X 2 = 10 Marks

11. Odontoclast
12. Interglobular dentin
13. Functions of maxillary sinus
14. Name any four Nonkeratiocytes
15. Predentin

