

**Subject: Dental Anatomy, Embryology and Oral Histology**

**Part II**

**I LONG ESSAYS**

**2x10=20 Marks**

1. Enumerate the principal fibres of the periodontal ligament with a neat labelled diagram. Describe the course and function of each group of fibres. (5+5)
2. Describe the dental anatomy of mandibular second premolar.

**II SHORT ESSAYS**

**4x5=20 Marks**

3. Histology of gingiva.
4. Functions of saliva.
5. Differences between primary and secondary dentition.
6. Life cycle of ameloblasts.

**III SHORT ANSWERS**

**10x2= 20 Marks**

7. Nasmyth's membrane.
8. Leeway space of Nance.
9. Dental formula for permanent and deciduous teeth.
10. Vascular pressure theory of tooth eruption.
11. What are striated ducts?
12. Occlusal aspect of mandibular first premolar.
13. Stages of deglutition.
14. Tomes granular layer.
15. Taste pathway.
16. Chronology of eruption of permanent teeth.

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I B-DS (RSE) June-2019

QP Code: 11202 & 11203

**Subject: General Human Physiology and Biochemistry**

**Part II**

*Section A & Section B should be answered in separate answer booklets*

QP Code: 11202

(30 Marks)

**Section A**

**General Human Physiology**

**I LONG ESSAY**

1x10=10 Marks

1. Describe the metabolic actions of thyroid hormones. Add a note on hyperthyroidism.

**II SHORT ESSAYS**

2x5=10 Marks

2. Pulmonary surfactant.
3. Trace the pathway of pain from the oral cavity.

**III SHORT ANSWERS**

5x2=10 Marks

4. Timed vital capacity.
5. Cryptorchidism.
6. Erythroblastosis.
7. Ovulation.
8. Achalasia cardia.

QP Code: 11203

(30 Marks)

**Section B**

**Biochemistry**

**I LONG ESSAY**

1x10=10 Marks

9. Write the steps of aerobic glycolysis. Add a note on its energetic and regulation.

**II SHORT ESSAYS**

2x5=10 Marks

10. Structure and functions of cholesterol.
11. Competitive and non-competitive enzyme inhibition.

**III SHORT ANSWERS**

5x2=10 Marks

12. Mention the enzymes that are elevated in myocardial infarction.
13. Uncouplers of oxidative phosphorylation.
14. Types of RNA.
15. Creatinine clearance test.
16. Fluoride toxicity.

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I.B.D.S (RS I) June-2019

QP Code: 11201

**Subject: General Human Anatomy Including Embryology, Osteology, Histology and Medical Genetics**

**Part II**

**I LONG ESSAYS**

**2x10=20 Marks**

1. Describe scalp under the following headings:  
a) Extent and layers  
b) Blood supply and nerve supply  
c) Applied anatomy. (3+4+3)
2. Describe the parotid gland under the following headings:  
a) External features and relations  
b) Blood supply and nerve supply  
c) Parotid duct  
d) Applied anatomy. (3+3+2+2)

**II SHORT ESSAYS**

**4x5= 20 Marks**

3. Hyoid bone.
4. External jugular vein.
5. Fertilization.
6. Histology of pituitary gland.

**III SHORT ANSWERS**

**10X2=20 Marks**

7. Branches of mandibular nerve.
8. Name the muscles attached to the mastoid process.
9. Name the three parts of orbicularis oculi.
10. Structure of matured spermatozoa.
11. Name the structures passing through internal auditory meatus.
12. Name the branches of facial artery in face.
13. Emissary vein.
14. Pterion.
15. Name any two muscles of soft palate.
16. Carotid sheath.

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