SUPPLEMENTARY BDS I PROFESSIONAL EXAMINATION 2009-10

				iii)	22 iv) 32	2
Subject Code:BDS101 Paper ID:0311101			e)	All of the following muscle	es are grouped together as	
· ·	•	•		ŕ	'muscles of mastication' except:	
	General Human A	natomy		i)	Buccinator ii) M	Iasseter
		•		ii)	Temporalis iv) P	terygoids
Tim	e: 3 Hours	Max Marks: 70				
Note	e:1. Attempt all questions from Part A	and Part B. Each Part Carry			Part 'B'	
. 100	35 Marks. Draw proper diagrams t					
	2. Use separate answer book for		1.	Describe the course, branches, distribution and applied anatomy of		
	•			the fa	acial nerve.	(8)
	Part 'A'		•			(0)
1.	Describe the Parotid gland under the	following heading: (8)	2.	Desc	ribe the cerebellum in detail.	(8)
1.	Describe the Parotid gland under the following heading: (8) a) Gross features		2	337 .	1	(2, 2, 0)
	b) Relations		3.		e short notes on:	(3x3=9)
	c) Vascular and Nerve supply			a) b)	Corpus Callossum CSF Circulation	
	d) Applied anatomy			c)	Development of Tooth	
2.	Describe the anatomy of the tongue a	and correlates its development		C)	Development of Tooth	
	with nerve supply.	(8)	4.	Choc	ose the correct answer for each que	estion. $(2x5=10)$
				a)	Stenson's duct drains:-	(2/10)
3.	Write short notes on	(3x3=9)		i)	The parotid salivary gland	
	a) Palatine Tonsil			ii)	The submandibular salivary gla	nd
	b) Sensory nerve supply of the face			iii)	The sublingual salivary gland	
	c) Pharyngeal arches			iv)	The pancreas	
				b)	Stylopharyngeus muscle is supp	olied by:-
4.	Choose the correct answer for each question. $(2x5=10)$			i)	Pharyngeal plexus	
	a) Name the largest paranasal sinus present in the body:			ii)	Facial nerve	
		Maxillary sinus Ethmoidal sinus		iii)	Glossopharyngeal nerve	
	b) Name the muscle responsible			iv)	Vagus nerve	
		Zygomaticus major		c)	Incomplete fusion of two media	il nasal swellings results in
		Zygomaticus minor		:)	the production of:-	
	c) At what age anterior fontanell	• •		i)	Oblique facial cleft Median facial cleft of upper lip	
	skull as membranous gap ossifies:-	,		ii) iii)	Lateral cleft of upper lip	
		8 months		iv)	Macrostomia	
	iii) 16 months iv)	18 months		10)	Macrostomia	
	,					

d)

i)

14

How many bones are present in the skull:

ii)

28

- d) The superior meatus of the nose contains the opening of:-
- i) Anterior ethmoidal air cells
- ii) Middle ethmoidal air cells
- iii) Posterior ethmoidal air cells
- iv) Frontal air cells
- e) The function of superior rectus muscle:-
- i) Intorsion, adduction
- ii) Abduction, elevation
- iii) Elevation
- iv) Depression

BDS IPROFESSIONAL EXAMINATION 2009-10

Subject Code:BDS101

Paper ID:0311101

General Human Anatomy

Time: 3 Hours Max Marks: 70

Note:1. Attempt all questions from Part A and Part B. Each Part Carry 35 Marks. Draw proper diagrams to support your answer.

2. Use separate answer book for Part A and Part B.

Part 'A'

- 1. Describe the Thyroid gland under the followings headings: (8)
 - a) Gross features
 - b) Relations
 - c) Vascular and Nerve supply
 - d) Applied anatomy
- 2. Discuss the temporo-mandibular joint in detail. (8)
- 3. Write short notes on

(3x3=9)

- a) Styloid Process
- b) Anatomy of Tooth.
- c) Submandibular ganglion.
- 4. Choose the correct answer for each question. (2x5=10)
 - a) The parotid duct pierces which of the following muscles prior to entry into the oral cavity:-
 - i) Medial pterygoid
- ii) Buccinator
- iii) Mylohyoid
- iv) Masseter
- b) The incisive foramen is associated with which of the following nerve:-
- i) Nasopalatine
- ii) Mental
- iii) Inferior alveolar
- iv) Lesser petrosal nerve
- c) Mandibular teeth are vascularized by branches of which of the following arteries:-
- i) Labial

ii) Lingual

- Maxillary iii) Facial iv) d) Anterior 2/3 of tongue arises from: Hyoid arch i) Hypobranchial eminence ii) Mandibular arch iii) Styloid arch iv) Main arterial supply of tonsil is from:e) Tonsillar branch of facial artery i) Tonsillar branch from internal maxillary artery ii) Tonsillar branch from lingual artery iii) Tonsillar branch from superior thyroid artery iv) Part 'B' Describe the course, branches, distribution and applied anatomy of the trigeminal nerve.
- the trigeminal nerve. (8)

 2. Describe the muscles of mastication. (8)
- 3. Write short notes on: (3x3=9)
 - a) Carotid sheath

1.

- b) External features and functional areas of cerebral cortex
- c) Down's Syndrome.
- 4. Choose the correct answer for each question. (2x5=10)
 - a) Wharton's duct drains:-
 - i) The parotid salivary gland
 - ii) The submandibular salivary gland
 - iii) The sublingual salivary gland
 - iv) The pancreas
 - b) Damage to the facial nerve within the parotid gland may cause:-
 - i) Spasm of the muscles of mastication
 - ii) Drooping of the lips
 - iii) Deviation of the tongue to the affected side
 - iv) Partial anesthesia of the cheek on the affected side

- c) Which of the following nerve exits the cranium through the foramen ovale:-
- i) Opthalmic
- ii) Maxillary
- iii) Glossopharyngeal
- iv) Mandibular
- d) The inferior meatus of the nose contains the opening of:-
- i) Anterior ethmoidal air cells
- ii) Nasolacrimal duct
- iii) Maxillary air cells
- iv) Frontal air cells
- e) The communicating vein responsible for spread infection from the dangerous area of the face:-
- i) Superior ophthalmic Vein
- ii) Inferior Ophthalmic Vein
- iii) Maxillary Vein
- iv) Lingual Vein

BDS I PROFESSIONAL EXAMINATION 2009-10

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Subject Code:BDS102			Paper ID:0311102			
	General Human	Physiolog	y and Bioc	chemistry		
Time: 3 H	Max Marks: 70					
35 N	tempt all questions Marks. Draw prope 2. Use separate ans	r diagram	s to suppor			
		Part 'A	•			
				gastric juice? Discuss gastric juice. (5+3=8)		
	How Oxygen is transported in blood? Write about the factors which affect the shift of oxygen-Hb dissociation curve. $(5+3=8)$					
3. Wri a) b) c)	te short notes on Functions of sali Sequence of eve Hemolytic disease	nts in neuro		(3x3=9) ransmission		
4. Cho a) i) ii) iii) iii) iv) b)	Clinically norma 5 million/cumm 6 million / cumn 12 million / cum 10 Lakh /cumm Maximum press cycle (m.m Hg):	al RBC count n n m ure achiev	nt is:-	(2x5=10) ventricle in a cardiac		
i)iii)c)ii)iii)	100 150 Aldosterone:- Is formed in kidi Increases Na ⁺ Ex	ii) iv) ney scretion	120 200			

iv)	Is formed in adrenal gland				
d)	Hormone responsible for milk ejection:				
i)	Oxytocin	ii)	Estrog	gen	
iii)	Prolactin	iv)	Relax		
e)	The structure respons				
i)	Rods	ii)	Cones	}	
ii)	Both	iv)	None		
Part 'B'					
Discu	ss glycolysis and Kreb	s cycle.		(8)	
Expla	in the reactions of β -o	xidatio	n of fatt	ported to Mitochondria? by acid. What is the yield olecule of palmitic acid?	
Write	short notes on:			(3x3=9)	
a)	Glycogen synthesis				
b)	Active Transport				
c)	c) Deficiency and toxic manifestation of fluoride				
	se the correct answer for			` ,	
a)	Diabetes mellitus is o	due to the			
i)	Insulin		ii)	Glucagon	
iii)	Anti diuretic hormone		iv)	Thyroid hormone	
b)	Maltose is a disaccharide comprising of:-				
i)	Glucose and Galactose		ii)	Glucose and Glucose	
iii)	Glucose and Fructose		iv)	Xylose and Ribose	
c)	4- Epiner of D-Glucose is:				
i)	L-Glucose	ii)	α-Glu		
iii)	D-Galactose iv)		D-Mannose		
d)	Vitamin D mimics the action of:				
i)	Parathormone	ii)	Calcitonin		
iii)	Glucagon	iv)	Growth hormone		
e)	The disease pellagra is due to a deficiency of:-				
i)	Vitamin B ₆	ii)	Biotin		
iii)	Folic acid	iv)	Niacir	1	

1.

2.

3.

4.

SUPPLEMENTARY BDS I PROFESSIONAL EXAMINATION 2009-10

Paper ID:0311102 **Subject Code:BDS102 General Human Physiology and Biochemistry** Time: 3 Hours Max Marks: 70 Note:1. Attempt all questions from Part A and Part B. Each Part Carry 35 Marks. Draw proper diagrams to support your answer. 2. Use separate answer book for Part A and Part B. Part 'A' Define Blood Pressure. Give its normal value. Describe regulation 1. of B.P. (1+1+6=8)What are compositions and functions of gastric juice? Discuss the 2. mechanism of secretion and regulation of gastric juice. (3+5=8)3. Write short notes on (3x3=9)List Functions of Hypothalamus a) Hypoxia b) Active transport c) Choose the correct answer for each question. (2x5=10)4. Affinity of haemoglobin for oxygen is influenced by following factors except:- H^{+} ii) i) **Temperature** 2,3 DPG iii) None iv) Atrophy of gastric mucosa produces:b) Hyperacidity Indigestion i) ii) Gas formation Pernicious Anaemia iii) iv) Dyspnoea is:c) Normal Breathing at rest Difficulty in breathing i) ii)

iv)

Fine touch

Which sensation is not transmitted by dorsal column:

ii)

Painful breathing

Stoppage of breathing

iii)

d)

i)

Pain

Pressure iv) Vibrations iii) Diabetes Mellitus occurs due to:e) i) Insulin excess Insulin deficiency ii) iii) Thyroxine deficiency iv) ADH deficiency Part 'B' Describe transcription in prokaryotes. Draw a diagram. (8) Explain the factor affecting enzyme activity. (8) Write short notes on: (3x3=9)Dietary fibres a) b) **BMR** Glycolysis c) Choose the correct answer for each question. (2x5=10)Diabetes insipidus is due to the defect in the action of:a) i) Insulin Glucagon ii) iii) Anti diuretic hormone Thyroid hormone iv) The disease Beri Beri is due to deficiency of:b) ii) Thiamine Riboflavin i) iii) Niacin iv) Pyridoxine Hormone containing iodine is: c) TSH Thyroid hormone i) ii) Glucagon iii) Insulin iv) The mitochondrial electron transport chain carriers are d) located:in the inner mitochondrial membrane i) in the mitochondrial matrix ii) in the inter membrane space iii) in the outer mitochondrial membrane iv) β- oxidation of falty acids occurs in? e) i) Lysosomes ii) Peroxicomes

iv)

Cytosol

1.

2.

3.

4.

iii)

Mitochondria

BDS I PROFESSIONAL EXAMINATION 2009-10

i) Paper ID:0311103 Subject Code:BDS – 103 iii) e) Oral and Dental Anatomy & Histology i) iii) Time: 3 Hours Max Marks: 70 Note: 1. Attempt all questions from Part A & Part B. Each Part Carry 35 Marks. Draw proper diagrams to support your answer. 2. Use separate answer book for Part A and Part B. 1. Part 'A' Define eruption. Enumerate the theories of eruption and explain the 1. 2. most accepted theory in detail. (8) Write the chronology and describe the morphology of occlusal 2. surface of permanent maxillary 1st molar in detail. 3. Write briefly on (8) a) b) 3. Write briefly on (3x3=9)c) Leeway Space of Nance. a) Principle fibres of periodontal ligament. b) 4. Functions of saliva. c) 4. Multiple choice questions: (2x5=10)Lines of retzius is due to, except a) 2 Variation in organic structure i) i) iii) 35 Disturbances in rhythm of mineralization ii) Intermitteat alteration of rods course. b) iii) These darker areas have very low organic content. iv) Centric position The portion of tooth that is exposed in the mouth is known as i) b) Centric relation iii) the Natural crown Anatomical crown i) ii) Exposed crown c) iii) Clinical crown iv) of salivary The smallest cusp of the maxillary permanent first molar c) i) Striated ducts excluding cusp of carabelli, is the Mesiolingnal cusp Distolingnal cusp iii) i) ii)

Meiobuccal cusp iv) Distobuccal cusp iii) d) Dentinal tubules contain Nerve fiber terminal. ii) Collagea fiber. All of the above Odontoblastic process iv) Weil's zone in pulp organ is Cell free zone. ii) Cell rich zone. Odontoblostic zone neurovascular zone. iv)

Part 'B'

- Define and classify Oral Mucous membrane? Write in detail about masticatory mucosa?
- Write in detail about the age changes of dentin. Add a note on dentinal hypersensitivity. (8)
- (3x3=9)
 - Cellular cementum v/s Accllular cementum.
 - Enamel spindeles
 - Papillae of the tongue
- Write the correct answer of the following (2x5=10)multiple choice questions-
 - According to FDI numbering system the permanent mandibular left second premolar is
 - ii) 17 iv) 18
 - The position of maximum inter cuspation of upper and lower
 - teeth is referred to as
 - Centric occlusion ii) Centric bite.
 - iv)
 - Which of the following ducts arise from secretary end pieces
 - ii) Inter celated
 - Excretory ducts iv) Interlobular ducts

d) Merkel cells are likely to be found in which of the following tissues Periosteum ii) Lamiva Propria. i) iv) iii) Epithelium Submucosa Ossification of mandible starts in which of the following e) reginons Alveolar process Mental foramen i) ii) iv) iii) Condvle Coronoid process

SUPPLEMENTARY BDS IPROFESSIONAL EXAMINATION 2009-10

Subject Code:BDS – 103

Paper ID:0311103

Oral and Dental Anatomy & Histology

Time: 3 Hours Max Marks: 70

Note: 1. Attempt all questions from Part A & Part B. Each Part Carry 35 Marks. Draw proper diagrams to support your answer.

2. Use separate answer book for Part A and Part B.

Part 'A'

- 1. Define and classify oral mucosa. Write in detail about the different layers of keratinized stratified squamous epithelium. (8)
- 2. Classify salivary glands. Write in detail about the histology of parotid gland. (8)
- 3. Write briefly on

(3x3=9)

- a) Age changes of pulp.
- b) Differences between deciduous and permanent teeth.
- c) Late Bell Stage.
- 4. Multiple choice questions:

(2x5=10)

- a) During production of enamel which of the following parts of enamel organ disappears.
- i) Inner enamel Epithelium.
- ii) Outer enamel epithelium
- iii) Reduced enamel epiphelium.
- iv) Stellate Reticulum.
- b) Which of the following Histologic features of enamel is apparently due to an optical phenomenon?
- i) Enamel tufts
- ii) Enamel spindles
- iii) Cross striations
- iv) Hunter schreger bands

c)	Which of the following is the last succadenous tooth to						
:)	erupt?						
i)	Maxillary canine						
ii) iii)							
	· · · · · · · · · · · · · · · · · · ·						
d)	iv) Mandibular 2nd premolar The histology of enemal may be best observed using which						
u)	d) The histology of enamel may be best observed using which of the following methods of slide preparation.						
i)							
ii)	PAS satin.						
iv)							
v)	Exfotiative cytology.						
e)	The calcium ions present in saliva are most likely to play a						
,	role in which of the following function of saliva.						
i)	Antibacterial						
ii)	Buffering.						
iii)	Protection.						
iv)	Digestion.						
Part 'B'							
Write in detail about the hypocalcified structures of enamel. (8)							
Descri	be various stages of development of tooth. (8)						
Write	Write briefly on $(3x3=9)$						
a)	·						
b)							
c)	Ridges and fossae.						
Write the correct answer of the following multiple choice questions- $(2x5=10)$							
a)	Stratum Intermedium of non keratinized epithelium is synonymous to						
i)	Straterm Granulosun ii) Straterm Spinoium						
iii)	Straterm Basole iv) Straterm Corneum						
b)	The tongue papilla which are least in number.						

1.

2.

3.

4.

Circumvallate i) Fungiform ii) iii) Filliform iv) None of the above. Osteoclasts are rich in c) Acid phosphatase ii) Alkaline phosphatase i) Peroxidose iv) Dehydrogenose iii) The cementoblasts are derived from d) i) Enamel organ ii) Epithaelial boot sheath. Dental papilla Dental Sac iii) iv) Parasympathetic innervation to parotid glands is from which e) gaglion.

ii)

iv)

Otic

Gasserian

Geniculate

Trigeminel

i)

iii)