BACHELOR OF DENTAL SURGERY (2008 COURSE) FIRST - B.D.S.: WINTER- 2019 SUBJECT: DENTAL ANATOMY, EMBRYOLOGY & ORAL HISTOLOGY (T WR)

W-3791-2019 Friday 06-12-2019 Max. Marks: 70 09:00 AM-12:00 PM N.B.: All questions are COMPULSORY. Both the sections should be written in SEPARATE answer books. 1) 2) Figures to the right indicate FULL marks. Draw neat labeled diagrams WHEREVER necessary. 3) 4) SECTION-I Write chemical composition of dentin. Describe in detail histology (10) Q.1 of dentin. OR Write in detail about the life cycle of Ameloblast. Add a note on Amelogenesis. (15)Write short note on (Any THREE) 0.2 Enamel lamellae Tooth numbering systems b) Theories of dentin hypersensitivity c) Fate of dental lamina + (10) Answer the following (Any FIVE) 0.3 Enumerate the cells of the pulp. What are Enamel Spindles? Enumerate the transient structures seen in the stages of b) development of tooth. Define line angle & point angle. Name the incremental lines of dentin and cementum d) e) Define Pit & Fossa. SECTION-II Write in detail about the chronology notations and morphology of (10) Permanent Maxillary Canine. Write a note on arch traits of canine. 0.4 Write in detail about the chronology, notations and morphology of Permanent Maxillary First molar. (15)Write short note on (Any THREE) 0.5 Note on zones of pulp. a) Dead tracts. b) Hertwig's epithelial root sheath. c) Development of Palate (10)Answer the following (Any FIVE) Q.6 What are mamellons? What is Lamina Limitans. b) Define Oral mucous membrane. What are the derivatives of Dental Papilla and Dental Sac? c) Eruption time of Permanent Maxillary & Mandibular Central

Define Stain. Give two examples of special stains.

e)

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Wednesday 04-12-2019 09:00 AM-12:00 PM W-3790-2019 Max. Marks: 70

0 AM	1-12	:00 PM Max. Marks: 70
N.B.:		
	1)	All questions are COMPULSORY.
	2)	Figures to the right indicate FULL marks.
	3)	Answers to both the sections should be written in SEPARATE answer book.
		SECTION-I
Q.1		Draw a diagram of sarcomere. Describe the molecular basis of muscle (10 contraction. Add a note on myaesthenia gravis. (3 +5 +2)
		OR
		Define synapse. Enumerate various properties of synapse. Describe any two (10 properties in detail. (1+3+6)
Q.2		Write notes on (Any THREE): (15
	a)	Electrocardiogram
	b)	Chemical control of respiration
	c)	ABO blood group system
	d)	Actions of glucocorticoids
Q.3		Short Answer questions: (Any FIVE) (10
	a)	Enumerate ovarian changes in menstrual cycle.
	b)	Enumerate various mechanisms of transport across cell membrane.
	c)	Define glomerular filtration rate. Give its normal value.
	d)	List muscles involved in inspiration.
	e) f)	Give functions of cerebellum. Enumerate functions of gastric juice.
	1,	Eliantitate functions of gastro juice.
		SECTION-II
Q.4		Describe Urea cycle. Write the importance of measuring blood urea level. (10 (5 +5)
		OR
		Describe the sources, RDA, functions and deficiency manifestations of Vitamin A. (1+1+4+4)
Q.5		Write notes on: (Any THREE): (15
	a)	Diagnostic applications of enzymes
	b)	Hormonal regulation of serum calcium level
	c)	Liver function tests
	d)	Glucose Tolerance test (GTT)
Q.6		Short Answer questions: (Any FIVE) (10)
	10	Enlist compounds synthesized from tyrosine

c) Define ketosis, enumerate ketone bodies.
d) Define mutation and give two examples.
e) Enumerate four functions of plasma proteins.
f) Mention one function each of Copper, Iron, Fluorine and Zinc.

b) Give importance of four homopolysaccharides.