

I – B.D.S. (2008 COURSE) : SUMMER - 2019
SUBJECT: DENTAL ANATOMY, EMBRYOLOGY & ORAL HISTOLOGY

Day: Monday
Date: 10/06/2019

S-2019-4041

Time: 09.00 AM TO 12.00 NOON
Max. Marks: 70

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Both the sections should be written in **SEPARATE** answer books.
- 3) Figures to the right indicate **FULL** marks.
- 4) Draw neat labeled diagrams **WHEREVER** necessary.

SECTION-I

Q.1 What is Amelogenesis? Write in detail about life cycle of Ameloblast. **(10)**

OR

Define and Classify Oral mucous membrane. Describe in detail histology of papillae of tongue.

Q.2 Write short note on (Any **THREE**) **(15)**

- a) Cellular components of pulp
- b) Hypocalcified areas of enamel
- c) Flush terminal plane
- d) Describe in brief about decalcification of tooth

Q.3 Answer the following (Any **FIVE**) **(10)**

- a) Define cusp and ridge with examples
- b) Enumerate types of cementum
- c) What is cribriform plate
- d) Enumerate muscles of mastication
- e) Enumerate the tooth numbering systems
- f) Define embrasures and spillways

SECTION-II

Q.4 Describe in detail the morphology of maxillary first premolar. **(10)**

OR

Describe in detail the morphology of permanent maxillary first molar.

Q.5 Write short note on (Any **THREE**) **(15)**

- a) Theories of eruption
- b) Dead tracts and sclerotic dentin
- c) Functions of saliva
- d) Phases of deglutition

Q.6 Answer the following (Any **FIVE**) **(10)**

- a) Define stains. Enumerate special stains
- b) Define pit, groove and fossa
- c) Define mamellons
- d) Functions of maxillary sinus
- e) Enumerate the principal group of fibres of periodontal ligament
- f) Give the mineral contents (percentages) of enamel, dentin and bone

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I – B.D.S. (2008 COURSE) : SUMMER - 2019
SUBJECT : GENERAL HUMAN ANATOMY INCLUDING EMBRYOLOGY
AND HISTOLOGY

Day : Tuesday
Date : 04/06/2019

S-2019-4039

Time : 09.00 AM TO 12.00 NOO
Max. Marks : 70

N. B. :

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat labelled diagrams **WHEREVER** necessary.
- 4) Answers to both the sections should be written in **SEPARATE** answer books.

SECTION – I

Q. 1 Describe the gross anatomy of the tongue under the following headings: parts of the tongue, types of papillae on the surface of the tongue, muscles, nerve and blood supply of the tongue, lymphatic drainage and applied anatomy. **(10)**

OR

Q. 1 Describe the lateral wall of the nose under the following headings: bones and cartilages forming the lateral wall of nose, lining epithelium, conchae, meatuses, openings, blood and nerve supply, applied anatomy. **(10)**

Q. 2 Write essay questions (**ANY THREE**) **(15)**

- a) Sutures
- b) Muscles of mastication
- c) Blood supply of heart
- d) Classification of muscles

Q. 3 Short answer questions (**ANY FIVE**) **(10)**

- a) Name nerves supplying scalp anterior to the auricle
- b) Name structures passing into the pharynx above the level of the superior constrictor of pharynx
- c) Name the cartilages of the larynx
- d) Give the nerve supply of parotid gland
- e) Name the structures present in the hilum of the right lung
- f) Give posterior relations of the right kidney

SECTION – II

Q. 4 Describe the trigeminal nerve under the following headings: origin with functional components, intra cranial and extra cranial course, branches and distribution and applied anatomy. **(10)**

OR

Q. 4 Classify the intra cranial venous sinuses. Describe the cavernous venous sinus, its formation, communications and tributaries, contents, relations and applied anatomy. **(10)**

Q. 5 Write essay questions (**ANY THREE**) **(15)**

- a) Corpus callosum
- b) Draw and explain the microscopic picture of elastic artery
- c) Explain the embryogenesis of the palate and its developmental anomalies
- d) Barr body

Q. 6 Short answer questions (**ANY FIVE**) **(10)**

- a) Name sites for ectopic implantation
- b) Draw the microscopic picture of ovary
- c) Name any 4 features of Turner's syndrome
- d) Name functions of the placenta
- e) Name muscles forming floor of the posterior triangle
- f) Name the infra hyoid strap muscles. Give their nerve supply

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I – B.D.S. (2008 COURSE) : SUMMER - 2019
SUBJECT: GENERAL HUMAN PHYSIOLOGY & BIOCHEMISTRY

Day: Friday
Date: 07/06/2019

S-2019-4040

Time: 09.00 AM TO 12.00 NOON
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 Define blood pressure. Enumerate various mechanisms of regulation of blood pressure. Describe short term mechanisms in detail. (1 +3 +6) **(10)**

OR

Enumerate ascending tracts of spinal cord. Describe origin, course and termination of spinothalamic tracts. (2+8) **(10)**

Q.2 Write notes on: (Any **THREE**) **(15)**

- a) Origin and spread of cardiac impulse
- b) Regulation of salivary secretion
- c) Rh blood group system
- d) Transport of oxygen in blood

Q.3 Short Answer questions: (Any **FIVE**) **(10)**

- a) Enumerate physiological actions of aldosterone.
- b) Define homeostasis and enumerate its mechanisms.
- c) Draw and label neuromuscular junction.
- d) List uterine changes during menstrual cycle.
- e) List functions of cerebellum.
- f) Enlist four properties of reflex action.

SECTION-II

Q.4 Describe tricarboxylic acid cycle with its energetics. Add a note on its amphibolic role. (5 +2+3) **(10)**

OR

Describe the chemistry, types, functions and catabolism of hemoglobin. (2+2+3+3)

Q.5 Write notes on: (Any **THREE**) **(15)**

- a) Functions and deficiency manifestations of Vitamin D.
- b) Kidney function tests.
- c) Structure and functions of deoxyribonucleic acid.
- d) Clinical applications of enzymes.

Q.6 Short Answer questions: (Any **FIVE**) **(10)**

- a) List four functions of phospholipids.
- b) What is normal blood pH. Enumerate blood buffers.
- c) Enumerate hyperglycemic hormones.
- d) Enumerate any four B complex vitamins and their active forms.
- e) List four functions of cholesterol.
- f) Write four properties of genetic code.