

I-B.D.S. (2008 COURSE) : WINTER 2020
SUBJECT : DENTAL ANATOMY, EMBRYOLOGY AND ORAL HISTOLOGY

Day : Friday

Date : 25-06-2021

Time : 9:00AM TO 12:00 NOON
Max. Marks : 70

W-2020-3791

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 Amelogenesis in detail. (10)
- OR**
- Q.1** Describe the eruption and shedding of teeth. (10)
- Q.2** Short essay questions (**ANY THREE**) (15)
- a) Diffused calcification
 - b) Enamel knot and enamel cord
 - c) Enamel Lamellae
 - d) Bell stage of tooth development
- Q.3** Short answer questions (**ANY FIVE**) (10)
- a) Resting and reversal lines
 - b) Enumerate papillae of tongue
 - c) Functions of fibroblast
 - d) Enumerate principle fibres of periodontium
 - e) Enumerate movements of TMJ
 - f) Interglobular dentin

SECTION – II

- Q.4** Differences between deciduous and permanent teeth. (10)
- OR**
- Q.4** Describe the morphology of permanent Mandibular first molar. (10)
- Q.5** Short essay questions (**ANY THREE**) (15)
- a) Compensating curves
 - b) Mamelons
 - c) Functions and clinical consideration of maxillary sinus
 - d) Functions of saliva
- Q.6** Short answer questions (**ANY FIVE**) (10)
- a) Meckel's cartilage
 - b) Enumerate functions of pulp
 - c) Principle of H and E stain
 - d) Leeway space
 - e) Cellular cementum
 - f) Hertwig's Epithelial Root Sheath

I-B.D.S. (2008 COURSE) : WINTER 2020
SUBJECT : GENERAL HUMAN ANATOMY INCLUDING EMBRYOLOGY AND HISTOLOGY

Day : Monday
Date : 21-06-2021

WI-2020-3789

Time : 9:00AM TO 12:00NOON
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 **parotid gland** under the following headings : capsules, surfaces and borders, relations, blood and nerve supply and applied anatomy. (10)

OR

Q.1 Describe the muscles of the pharynx; origin, insertion, structures passing between the muscles, nerve supply, action and applied anatomy. (10)

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

- a) Right atrium of the heart
- b) Sternocleidomastoid muscle
- c) Respiratory diaphragm
- d) Classification of muscles

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

- a) Name muscles forming the modiolus on the face
- b) Name the arteries supplying the scalp
- c) Give the nerve supply and action of genioglossus muscle
- d) Name the structures related to the medial / mediasinal surface of the right lung
- e) Name tributaries of internal jugular vein
- f) Name the differences between primary and secondary cartilaginous joints

SECTION – II

Q.4 Describe the facial 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 Describe the deep cervical fascia, parts, extent, attachments, thickenings, applied anatomy. (10)

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

- a) Extra ocular muscles
- b) Draw and explain the microscopic picture of prostate
- c) Explain the embryogenesis of the tongue and correlate with its nerve supply
- d) Down's syndrome

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

- a) Name prerequisites for implantation
- b) Draw the microscopic picture of thyroid gland
- c) Name any two characteristics and give two examples of X linked recessive disorders
- d) Draw and label a tertiary chorionic villus
- e) Name the structures in the hilum of the liver
- f) Name the infra hyoid strap muscles. Give their nerve supply

I - B.D.S. (2008 COURSE) : Winter-2020
SUBJECT: GENERAL HUMAN PHYSIOLOGY & BIOCHEMISTRY

Day: Wednesday
Date: 23.06.2021

Time: 9.00 AM To 12.00
Max. Marks: 70 Noon

W2020-3790.

N. B.

- 1) All Questions are **COMPULSORY**.
- 2) Draw neat labeled diagram **WHEREVER** necessary.
- 3) Both the sections should be written in **SEPARATE** answer book
- 4) Figures to the right indicates **FULL** marks.

SECTION-I

- Q. 1 Describe structure and functions of cerebellum. Add a note on cerebellar signs (10)
(3+5+2=10 marks)

OR

Draw a diagram of sarcomere. Describe the molecular basis of muscle contraction.
Add a note on myasthenia gravis. (3+5+2=10 marks)

- Q.2 Write Notes on any **THREE** of the following: (15)
- a) Short term regulation of blood pressure
 - b) Transport of oxygen from lungs to tissues
 - c) Hemostasis
 - d) Functions of saliva

- Q.3 Answer Any **FIVE** of the following: (10)
- a) Enlist steps of urine formation
 - b) Define action potential
 - c) Enumerate ovarian changes during menstrual cycle
 - d) Enlist actions of growth hormone
 - e) Define vital capacity of lungs
 - f) Enlist ventricular events in cardiac cycle

SECTION-II

- Q. 4 Define enzymes. Describe in detail analytical, diagnostic & therapeutic applications of enzymes. (1+9) (10)

OR

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

- Q.5 Write Notes on any **THREE** of the following: (15)
- a) Glycosuria
 - b) Liver function tests
 - c) Blood buffers
 - d) Tricarboxylic acid cycle (TCA) with energetics

- Q.6 Answer Any **FIVE** of the following: (10)
- a) Define and enlist essential amino acids
 - b) Enlist four functions of phospholipids
 - c) Define ketosis and name ketone bodies
 - d) Enlist essential fatty acids with sources.
 - e) Functions of vitamin C
 - f) Enumerate four function of plasma proteins

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