

**I – B.D.S. (2008 COURSE) : WINTER - 2018**  
**SUBJECT: DENTAL ANATOMY, EMBRYOLOGY AND ORAL HISTOLOGY**

Day : Friday  
Date : 07/12/2018

**W-2018-3752**

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

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**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.
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**SECTION-I**

**Q.1 Long Essay:** (10)

Write in detail histology of Enamel.

**OR**

Write in detail histology of pulp.

**Q.2 Write short essay on: (ANY THREE)** (15)

- a) Dead tracts
- b) Incremental lines
- c) Fate of Dental lamina
- d) theories of dentin sensitivity

**Q.3 Write short notes on: (ANY FIVE)** (10)

- a) Give examples of decalcifying agents
- b) Define Stain. Name 2 special stains
- c) Name the formative cells
- d) Enumerate the transient structures in development of tooth
- e) Enumerate functions of PDL
- f) Enumerate theories of tooth eruption

**SECTION-II**

**Q.4 Long Essay:** (10)

Describe in detail the morphology of permanent maxillary first molar.

**OR**

Write in detail about the chronology, functions and aspects of Permanent Maxillary Canine.

**Q.5 Write short essay on: (ANY THREE)** (15)

- a) Tooth Numbering Systems
- b) Development of tongue
- c) Compensating curves
- d) Decalcification

**Q.6 Write short notes on: (ANY FIVE)** (10)

- a) What structures those develop from Dental Papilla and Dental Sac cells
- b) Enumerate 4 hypocalcified structures of Enamel
- c) Define Microscope. Name 2 specialized Microscopes
- d) What is Predentin?
- e) Define Pit, Fossa
- f) What are Mamellons?

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**I – B.D.S. (2008 COURSE) : WINTER - 2018**  
**SUBJECT: GENERAL HUMAN ANATOMY INCLUDING EMBRYOLOGY AND HISTOLOGY**

Day : Monday  
Date : 03/12/2018

**W-2018-3750**

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** Describe the scalp under the following headings; layers, blood supply, nerve supply, applied anatomy. **(10)**

**OR**

Describe the temporo-mandibular joint under the following headings: articular surfaces, ligaments, relations, muscles acting on the joint and applied anatomy. **(10)**

**Q.2** Short Essay Questions (**Any Three**) **(15)**

- a) Cavernous venous sinus.
- b) Blood supply of the stomach.
- c) Right atrium of the heart.
- d) Classification of synovial joints with examples. Add a note on structure of synovial joints.

**Q.3** Write short answer (**Any Five**) **(10)**

- a) Name any 4 branches of external carotid artery.
- b) Give the nerve supply and action of buccinator muscle.
- c) Draw and label parts of a long bone.
- d) Give nerve supply and action of the extra ocular superior oblique muscle.
- e) Name the structures in the hilum of the right lung.
- f) Give nerve supply and action of sternocleidomastoid muscle.

**SECTION-II**

**Q.4** Describe the boundaries and contents of the posterior triangle. **(10)**

**OR**

Write a note on parotid gland under the following headings: parts of the gland with relations, coverings, structures passing through, nerve supply, blood supply, parotid duct and applied anatomy. **(10)**

**Q.5** Short Essay Questions (**Any Three**) **(15)**

- a) Corpus Callosum.
- b) Effects of fertilization.
- c) Karyotyping.
- d) Microscopic picture of thyroid gland.

**Q.6** Write short answer (**Any Five**) **(10)**

- a) Draw and label structure of the sperm.
- b) Draw and label microscopic picture of compact bone.
- c) Name the infrahyoid strap muscles. Give their nerve supply.
- d) Define end arteries. Give two examples.
- e) Name any 4 types of structural variety of chromosomal aberrations.
- f) Name the prerequisites of implantation.

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**I – B.D.S. (2008 COURSE) : WINTER - 2018**  
**SUBJECT: GENERAL HUMAN PHYSIOLOGY AND BIOCHEMISTRY**

Day : Wednesday  
Date : 05/12/2018

**W-2018-3751**

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

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**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.
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**SECTION-I**

**Q.1** Define Immunity. Describe cell mediated immunity in detail. [2 + 8] **(10)**

**OR**

Define cardiac output. What is its normal value? Describe factors determining cardiac output. [2 + 1 + 7]

**Q.2** Write notes on any **THREE** of the following: (3 x 5) **(15)**

- a) Methods of contraception
- b) Physiological actions of mineralocorticoids
- c) Functions of parietal lobe of cerebral cortex
- d) Surfactant

**Q.3** Answer any **FIVE** of the following: (5 x 2) **(10)**

- a) Enumerate functions of cell membrane.
- b) Enumerate various ascending tracts of spinal cord.
- c) List functions of juxtaglomerular apparatus.
- d) Enlist properties of skeletal muscles.
- e) What is hypermetropia? How is it corrected?
- f) Enlist various uses of electrocardiogram?

**SECTION-II**

**Q.4** Define enzymes. Describe the diagnostic, therapeutic and analytical applications of enzymes. [1 + 5 + 2 + 2] **(10)**

**OR**

Discuss the sources, Recommended Dietary Allowance (RDA), biochemical functions of calcium and phosphorus. Add a note on maintenance of serum calcium level. [2 + 1 + 3 + 4]

**Q.5** Write notes on any **THREE** of the following: (3 x 5) **(15)**

- a) Jaundice
- b) Mutation
- c) Cholesterol
- d) Plasma proteins

**Q.6** Answer any **FIVE** of the following: (5 x 2) **(10)**

- a) Draw and label tRNA.
- b) Enumerate essential and nonessential amino acids.
- c) Deficiency manifestations of vitamin C.
- d) Write functions of phospholipids.
- e) What is normal blood pH? Enumerate blood buffers.
- f) Enlist any four characteristics of genetic code.

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