

**KAVERI - I (2008 COURSE): SUMMER - 2017**  
**SUBJECT: DENTAL ANATOMY, EMBRYOLOGY & ORAL HISTOLOGY**

Day: Monday  
Date: 24/07/2017

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) Both the sections should be written in **SEPARATE** answer book.
- 4) Draw neat and labeled diagrams **WHEREVER** necessary.

**SECTION-I**

**Q.1 Long Essay:**

Describe in detail the morphology of permanent maxillary first premolar. (10)

**OR**

Describe in detail the morphology of permanent mandibular first molar.

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

- a) Theories of eruption
- b) Types of cementum
- c) Theories of dentin sensitivity
- d) Phases of deglutition

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

- a) Define stains. Enumerate special stains
- b) Bonwill's triangle
- c) Mamellons
- d) Functions of maxillary sinus
- e) Enumerate the principle group of periodontal ligament
- f) Give the mineral contents (percentages) of enamel, dentin and bone

**SECTION-II**

**Long Essay**

**Q.4** What is Amelogenesis? Write in detail about life cycle of Ameloblast. (10)

**OR**

Classify salivary glands clinically and histologically. Describe the formation of saliva.

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

- a) Cellular components of pulp
- b) Hypocalcified areas of enamel
- c) Compensating curves
- d) Describe in brief about the steps in processing of dental hard tissues

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

- a) Define cusp and ridge with examples
- b) Enumerate the papillae of tongue
- c) Cribriform plate
- d) Enumerate muscles of mastication
- e) Enumerate the tooth numbering systems
- f) Define embrasures and spillways

**KAVERI-I (2008 COURSE): SUMMER 2017**  
**SUBJECT: GENERAL HUMAN ANATOMY INCLUDING EMBRYOLOGY AND HISTOLOGY**

Day : Thursday  
Date : 20/07/2017

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 books.
- 4) Draw neat labeled diagrams **WHEREVER** necessary.

**SECTION-I**

**Q.1** Describe the blood supply, nerve supply and applied anatomy of Face. **(10)**

**OR**

Describe boundaries and contents of Carotid triangle.

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

- a) Fontanelle
- b) Nasal septum
- c) Relations and blood supply of Liver
- d) Respiratory Diaphragm

**Q.3** Write short answers (**ANY FIVE**) **(10)**

- a) Name types of ossification.
- b) Name types of nerves.
- c) Name openings in Left Atrium.
- d) Name different Peritoneal folds. Give their functions.
- e) Name parasympathetic ganglia in head and neck.
- f) Give nerve supply, action of Temporalis muscle.

**SECTION-II**

**Q.4** Describe the origin, course, branches and distribution of Hypoglossal nerve. **(10)**

**OR**

Describe the parts, relations, blood supply and applied anatomy of Thyroid gland.

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

- a) 1<sup>st</sup> pharyngeal arch derivatives
- b) Chromosomal aberrations
- c) Describe Microscopic structure of Duodenum
- d) Describe Microscopic structure of Tongue

**Q.6** Write short answers (**ANY FIVE**) **(10)**

- a) Name remnants of notochord.
- b) Central sulcus of Brain.
- c) Functions of CSF.
- d) Functions of Placenta.
- e) Name cells and secretions of gastric gland.
- f) Draw and label microscopic structure of Thymus.

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**KAVERI - I (2008 COURSE) : SUMMER - 2017**  
**SUBJECT : GENERAL HUMAN PHYSIOLOGY AND BIOCHEMISTRY**

Day : Saturday  
Date : 22/07/2017

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 various mechanisms of regulation of respiration. (10)  
OR  
Describe the process of transmission of impulse across neuromuscular junction.
- Q.2 Write short notes on any **THREE** of the following: (3 x 5) (15)  
a) Rh blood group system  
b) Electrocardiogram  
c) Functions of various lobes of cerebral cortex  
d) Physiological actions of glucocorticoids
- Q.3 Answer any **FIVE** of the following: (5 x 2) (10)  
a) Enumerate functions of juxtaglomerular apparatus  
b) Define hemostasis.  
c) List properties of reflex action.  
d) State functions of saliva.  
e) Define shock. What are its causes?  
f) Enlist functions of cell membrane.

**SECTION - II**

- Q.4 Describe the sources, Recommended Dietary allowance (RDA) and deficiency manifestations of Vitamin A (2+1+3+4) (10)  
OR  
Describe the chemistry, types, functions and catabolism of hemoglobin. (2+2+3+3)
- Q.5 Write notes on any **THREE** of the following: (3 x 5) (15)  
a) Clinical applications of enzymes  
b) Mutation  
c) Ketosis  
d) Regulation of serum calcium level
- Q.6 Answer any **FIVE** of the following: (5 x 2) (10)  
a) Write four functions of plasma proteins.  
b) Enumerate the types and functions of lipoproteins.  
c) Mention any two functions of copper and iron.  
d) Draw and label tRNA.  
e) Write any four functions of heteropolysaccharides.  
f) Enumerate essential and semi-essential amino acids.

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