

**KAVERI – I (2008 COURSE): SUMMER – 2015**  
**SUBJECT: DENTAL ANATOMY, EMBRYOLOGY & ORAL HISTOLOGY**

Day: *Friday*  
Date: *08.05.2015*

Time: *9.00 A.M. 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.
- 4) Draw well labeled diagrams **WHEREVER** necessary.

**SECTION-I**

**Q.1** Long Essay Questions: ( Any **ONE**) **(10)**

Define and classify Oral mucous membrane write in detail about specialized mucosa.

**OR**

**Q.1** Enumerate the stages in the life cycle of ameloblasts. Write a note on Amelogenesis.

**Q.2** Short essay questions: ( Any **THREE**) **(15)**

- a) Compensating curves.
- b) Functions of Pulp.
- c) Theories of tooth Eruption.
- d) Function of Saliva.

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

- a) What are Shapely's fibers?
- b) Eruption age of Permanent Maxillary Canine and Permanent Mandibular Canine.
- c) Define Fossa and Ridge.
- d) Enumerate muscles of Mastication.
- e) Enumerate functions of PDL.
- f) Types of Cementum.

**SECTION-II**

**Q.4** Long Essay Questions: ( Any **ONE**) **(10)**

Describe in detail morphology of permanent mandibular first molar.

**OR**

Write in detail the morphology, chronological data, odontometric data, notations and functions of Permanent maxillary central incisor.

**Q.5** Short essay questions: ( Any **THREE**) **(15)**

- a) Theories of Dentin sensitivity
- b) Development of palate.
- c) Non dental factors affecting the occlusion.
- d) Tooth numbering systems.

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

- a) Define Mamellon and write their significance
- b) Cusp of Carabelle.

**KAVERI-I (2008 COURSE) : SUMMER 2015**  
**SUBJECT : GENERAL HUMAN ANATOMY INCLUDING EMBRYOLOGY AND HISTOLOGY**

Day : Saturday  
Date : 02.05.2015

Time : 9.00 A.M. To 12.00 Noon  
Max. Marks : 70.

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Both 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 origin, insertion, nerve supply and actions of Muscles of Mastication. (10)  
OR

**Q.1** Describe the position, relations, blood supply and applied anatomy of Thyroid gland. (10)

**Q.2** Short essay questions (Any Three) (15)

- a) Fontanellae
- b) Nasal conchae and Meatuses
- c) Coronary arteries
- d) Relations and blood supply of Left Kidney.

**Q.3** Short answer questions (Any Five) (10)

- a) Give four examples of flat bones
- b) Name arteries carrying deoxygenated blood.
- c) Name Branches of Subclavian artery
- d) Name structures in hilum of left lung
- e) Name muscles in anterior abdominal wall
- f) Give nerve supply, action of Genioglossus

**SECTION-II**

**Q.4** Describe the origin, course, relations, branches and distribution of Glossopharyngeal Nerve. (10)  
OR

**Q.4** Describe the lymphoid aggregations in Pharynx. Add a note on their applied importance. (10)

**Q.5** Short-essay questions (Any Three) (15)

- a) Development of Face
- b) Meiosis
- c) Describe the Microscopic structure of Liver
- d) Describe the Microscopic structure of Ovary.

**Q.6** Short answer questions (Any Five) (10)

- a) Name derivatives of 3<sup>rd</sup> Pharyngeal arch
- b) Give functions of Placenta
- c) Circle of Willis
- d) Lumbar Puncture
- e) Draw and label microscopic structure of Adipose tissue
- f) Draw and label microscopic structure of Elastic Artery.

**KAVERI-I (2008 COURSE) : SUMMER 2015**  
**SUBJECT : GENERAL HUMAN PHYSIOLOGY AND BIOCHEMISTRY**

Day : Wednesday  
Date : 06.05.2015

Time : 9.00 A.M. To 12.00 Noon.  
Max. Marks : 70.

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Both sections should be written in **SEPARATE** answer books.
- 3) Figures to the **RIGHT** indicate full marks.

**SECTION-I**

**Q.1** Describe erythropoiesis. Describe the factors controlling the stages of erythropoiesis. (10)

**OR**

Enumerate the hormones of the adrenal cortex. Describe the functions of Glucocorticoids.

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

- a) Micturition reflex
- b) Pulmonary circulation
- c) Functions of liver
- d) Neuromuscular transmission of impulse.

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

- a) Mitochondria
- b) Testosterone
- c) AIDS
- d) S.A. Node
- e) Receptor
- f) Hypermetropia.

**SECTION-II**

**Q.4** Describe the Sources, RDA, functions and deficiency manifestations of Vitamin D. (10)  
[2 + 1 + 3 + 4]

**OR**

Describe citric acid cycle with its energetics. Add a note on its amphibolic role.  
[7 + 3]

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

- a) Ketosis.
- b) Fluorosis.
- c) Structure and function of DNA.
- d) Mutation.

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

- a) Define creatinine clearance. State two advantages of its estimation.
- b) Enumerate bonds stabilizing protein structure.
- c) Define isoenzymes, giving two examples.
- d) Define and enumerate essential amino acids.
- e) What is normal blood pH? Enumerate blood buffers.
- f) Enumerate any four functions of cholesterol.