

**KAVERI-I : APRIL/ MAY 2007**  
**SUBJECT : DENTAL MATERIAL SCIENCE**

Day : Saturday  
Date : 12/05/2007

Time : 9.30 AM TO 12.30 PM  
Max. Marks : 60.

**N.B. :**

- 1) All questions are **COMPULSORY**.
- 2) Each section should be written in **SEPARATE** answer books.
- 3) Figures to the **RIGHT** indicate full marks.
- 4) Draw neat diagrams wherever necessary.

**SECTION-I**

**Q.1** Answer the following : **(10)**

- a) Define Hue, Value and Chroma.
- b) Enumerate Tooth coloured restorative materials.
- c) What is Polymerization shrinkage?
- d) State functions of occlusal rims.
- e) Advantages and disadvantages of Glass ionomer luting cement.
- f) What is Beading and Boxing?
- g) Define Trituration.
- h) Advantages of Elastomeric Impression Materials.
- i) Uses of Zinc Oxide Eugenol Cement.
- j) What is Miracle Mix?

**Q.2** Classify Impression Materials. Discuss in detail Irreversible Hydrocolloids. **(10)**

**Q.3** Write notes on any **TWO** of the following: **(10)**

- a) Inlay wax
- b) Ni-ti-Wires
- c) Denture adhesives.

**SECTION-II**

**Q.4** Define a Die. Classify different Die Materials. Explain any one Die system in detail. **(10)**

**Q.5** Discuss Silver Amalgam. **(10)**

**Q.6** Write notes on any **TWO** of the following: **(10)**

- a) Stress and strain
- b) Acid Etch Technique
- c) Pickling.

**KAVERI-I : APRIL/ MAY 2007**  
**SUBJECT : GENERAL HUMAN ANATOMY AND HISTOLOGY**

Day : Monday  
Date : 07/05/2007

Time : 9.30 AM TO 12.30 PM  
Max. Marks : 60.

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- N.B. :**
- 1) All questions are **COMPULSORY**.
  - 2) Each section should be written in **SEPARATE** answer books.
  - 3) Figures to the **RIGHT** indicate full marks.
  - 4) Draw neat diagrams wherever necessary.
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**SECTION-I**

- Q.1** Describe the gross anatomy of submandibular salivary gland. (10)
- Q.2** Describe the gross anatomy of lateral wall of Nose. (10)
- Q.3** Write in brief on any **TWO** of the following: (10)
- a) Fibrous joints
  - b) Right Atrium of Heart
  - c) Relation of Right Kidney.

**SECTION-II**

- Q.4** Describe the Posterior triangle of neck under the following heads : (10)
- a) Boundaries
  - b) Contents
  - c) Applied importance.
- Q.5** Write in brief on any **TWO** of the following: (10)
- a) Derivatives of 2<sup>nd</sup> pharyngeal arch.
  - b) Carotid sheath
  - c) Maxillary Nerve
- Q.6** Describe the microscopic anatomy of any **TWO** of the following: (10)
- a) Palatine tonsil
  - b) Elastic artery
  - c) Lip.

KAVERI-I : Oct-Nov-2007  
**SUBJECT : GENERAL HUMAN ANATOMY AND HISTOLOGY**

Day : Monday  
Date : 05-11-2007

Time : 9-00 am To 12-00 noon  
Max. Marks : 60.

**N.B. :**

- 1) All questions are **COMPULSORY**.
- 2) Each section should be written in **SEPARATE** answer books.
- 3) Figures to the **RIGHT** indicate full marks.
- 4) Draw neat diagrams wherever necessary.

**SECTION-I**

- Q.1** Describe the Scalp under the following heads : (10)
- a) Blood supply
  - b) Nerve supply
  - c) Applied importance.
- Q.2** Give the boundaries and communications of Infratemporal fossa. Describe the Pterygoid muscles. (10)
- Q.3** Write in brief on any **TWO** of the following: (10)
- a) Anastomoses
  - b) Axillary artery
  - c) Auditory tube.

**SECTION-II**

- Q.4** Describe the Tongue under the following heads : (10)
- a) Dorsum of tongue
  - b) Lymphatic drainage
  - c) Applied importance
- Q.5** Write in brief on any **TWO** of the following: (10)
- a) Development of face
  - b) Chromosomal aberrations
  - c) Sternomastoid muscle
- Q.6** Describe the microscopic anatomy of any **TWO** of the following: (10)
- a) Compact bone
  - b) Pituitary gland
  - c) Ovary.

**KAVERI-I : APRIL/ MAY -2007**  
**SUBJECT : GENERAL PHYSIOLOGY AND BIOCHEMISTRY**  
**HUMAN**

Day : Wednesday  
Date : 09-05-2007

Time : 9.30 A.M. TO 12.30 P.M.  
Max. Marks : 60.

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Answers to the two sections should be written in **SEPARATE** answer books.
- 3) Draw diagram wherever necessary.
- 4) Figures to the **RIGHT** indicate full marks.

**SECTION-I**

**Q.1** Define cardiac cycle. Describe ventricular events in cardiac cycle. (10)

**Q.2** Describe the role of respiratory centres in regulation of respiration. (10)

**OR**

Define the term immunity. Discuss the role of lymphocytes in immunity.

**Q.3** Write short notes on any **TWO** of the following: (10)  
a) Action Potential.  
b) Glomerular filtration.  
c) Pulmonary circulation.

**SECTION-II**

**Q.4** Describe physiological actions and regulation of thyroid hormones. (10)

**Q.5** Describe neurophysiology of pain with a note on analgesic system of body. (10)

**OR**

Describe structure and functions of spinal cord.

**Q.6** Write short notes on any **TWO** of the following: (10)  
a) Functions of liver.  
b) Metabolism in diabetes mellitus.  
c) Contraception in females.

KAVERI-I : Oct-Nov-2007  
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SUBJECT : GENERAL PHYSIOLOGY AND BIOCHEMISTRY  
Human

Day : Tuesday  
Date : 06-11-2007

Time : 9-00 a.m. To 12-00 noon  
Max. Marks : 60.

N.B. :

- 1) All questions are **COMPULSORY**.
- 2) Each section should be written in **SEPARATE** answer book.
- 3) Figures to the **RIGHT** indicate full marks.
- 4) Draw neat diagrams wherever necessary.

**SECTION-I**

**Q.1** Define E.C.G. Draw and label normal E.C.G. in Lead II. Describe all waves and intervals. What are uses of E.C.G.? (10)

**Q.2** Describe transport of oxygen in blood. Add a note on oxygen dissociation curve. (10)

**OR**

Classify carbohydrates. Describe carbohydrates. Describe the process of digestion of carbohydrates throughout gastrointestinal tract. What are uses of carbohydrates in our body?

**Q.3** Write notes on any **TWO** of the following: (10)  
a) Peripheral resistance  
b) Functions of platelets  
c) Active transport.

**SECTION-II**

**Q.4** Enumerate hormones of pituitary gland. Describe the actions of growth hormone. Add a note on Acromegaly. (10)

**Q.5** Describe Neurophysiology of pain. (10)

**OR**

Describe the process of synaptic transmission. Enumerate properties of synapse.

**Q.6** Write notes on any **TWO** of the following: (10)  
a) Testosterone  
b) Functions of Kidney  
c) Fat soluble vitamins.