

**KAVERI-II (2008 COURSE) : SUMMER 2016**  
**SUBJECT : DENTAL MATERIALS**

Day : **Friday**  
Date : **06-05-2016**

Time : **9:00AM TO 12:00NOON**  
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** Long Essay Questions (Any **ONE**, **1 x 10 marks**) (10)  
a) Write ideal requirements and classification of impression materials. Discuss composition, setting reaction, setting time, manipulation of zinc oxide eugenol paste.
- OR**
- b) Write classification of dental casting alloys. Classify and discuss casting defects.
- Q.2** Short Essay questions (Any **THREE**, **3 x 5 marks**) (15)  
a) Write composition and manipulation of inlay casting wax.  
b) Enumerate the various types of abrasive used as finishing and polishing materials. Mention advantages of polishing.  
c) Write a note on hygroscopic setting expansion.  
d) Define and classify dental investment materials.
- Q.3** Write short answers (Any **FIVE**, **5 x 2 marks**) (10)  
a) Manipulation and mixing of Irreversible Hydrocolloids.  
b) Define creep and write types of creep.  
c) Classify Dental Casting Defects.  
d) Composition of chemically activated denture base resin.  
e) Classification of dental ceramics.  
f) Define and classify stress.

**SECTION-II**

- Q.4** Long Essay Questions (Any **ONE**, **1 x 10 marks**) (10)  
a) Describe the term composite resin. Classify the dental composite resins. Add a note on Hybrid composites.
- OR**
- b) What is an amalgam? Describe the composition, amalgamation reaction of silver amalgam. Write a note on high copper silver amalgam alloy.
- Q.5** Short Essay questions (Any **THREE**, **3 x 5 marks**) (15)  
a) Classification of dental cements.  
b) Cavity varnish, bases and liners.  
c) 18-8 stainless-steel.  
d) Types of Glass Inomer cements.
- Q.6** Write short answers (Any **FIVE**, **5 x 2 marks**) (10)  
a) Soldering and welding.  
b) What is corrosion? Classify corrosion.  
c) Three dimensions of color.  
d) Requirements of metal ceramic alloys.  
e) Uses of zinc phosphate cements.  
f) EAMES technique.

**KAVERI-II (2008 COURSE) : SUMMER 2016**  
**SUBJECT : GENERAL & DENTAL PHARMACOLOGY AND THERAPEUTICS**

Day : Monday  
Date : 02-05-2016

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

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate full marks.

**SECTION-I**

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

- a) Classify diuretic agents. Explain mechanism of action, uses and adverse effects of Furosemide.
- b) Enumerate alpha adrenergic blockers. Mention their uses and adverse effects giving reasons.

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

- a) Mention properties of ideal antiseptic agent. Describe pharmacological actions and uses of hydrogen peroxide.
- b) Define dentifrices. Give various ingredients of dentifrice with its mechanisms of action.
- c) What are astringents? Classify them and mention their uses.
- d) Define obtundents. Classify obtundents according to their mechanism of action giving examples.

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

- a) Mention 2 advantages and 2 disadvantages of intramuscular route of administration.
- b) Define synergism. Mention 2 examples of supra-additive effects.
- c) Explain the mechanism of action of Omeprazole.
- d) Enumerate 4 uses of anticholinergic drugs with examples.
- e) Comment on the combination of lignocaine and Adrenaline.
- f) Give rationale for using Amlodipine in hypertension.

**SECTION-II**

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

- a) Classify General anesthetic agents. Describe Thiopentone sodium as inducing agent.
- b) Enumerate Aminopenicillins and list their uses. Add a note on Amoxycillin – Clavulanate combination.

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

- a) Lugol's iodine – mechanism of action and uses.
- b) Uses of Metronidazole
- c) Phenytoin sodium – Mechanism of action, uses and adverse effects.
- d) Second generation H<sub>1</sub> antihistaminics.

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

- a) Mechanism of action of Warfarin.
- b) Sumatriptan is used in migraine.
- c) Mention 4 uses of Diazepam with its route of administration for each use.
- d) Role of Hepatitis B vaccination.
- e) Mention 2 uses and 2 adverse effects of Insulin.
- f) Why vitamin B<sub>12</sub> is given parenterally in Pernicious anemia?

**KAVERI-II (2008 COURSE) : SUMMER 2016**  
**SUBJECT : GENERAL PATHOLOGY AND MICROBIOLOGY**

Day : Wednesday  
Date : 04-05-2016

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

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate full marks.

**SECTION-I**

- Q.1** Define repair. Describe briefly healing of a skin wound by secondary intention. (10)  
Enumerate factors delaying wound healing.

**OR**

Define neoplasia. Describe routes and mechanisms of metastasis.

- Q.2** Write short notes on any **THREE** of the following: (15)
- a) Laboratory diagnosis of iron deficiency anaemia.
  - b) Primary tuberculosis.
  - c) Definition and types of infarcts with examples.
  - d) Etiopathogenesis of oedema.

- Q.3** Write short answers any **FIVE** of the following: (10)
- a) Chemical carcinogens
  - b) Enumerate 2 causes each of hematuria and proteinuria.
  - c) Gross and microscopy of atherosclerosis.
  - d) Dystrophic calcification.
  - e) Enumerate types of necrosis.
  - f) Wet gangrene.

**SECTION-II**

- Q.4** Write the differences between bacteria and viruses. Describe the laboratory diagnosis of viral infections. (10)

**OR**

Describe the morphology, cultural characteristics, biochemical reactions, toxin produced and pathogenicity of *Corynebacterium diphtheriae*. Describe the laboratory diagnosis of Diphtheria. How would you immunize a person against Diphtheria?

- Q.5** Write short notes on any **THREE** of the following: (15)
- a) Describe the structure and functions of immunoglobulins.
  - b) Enumerate anaerobic microorganisms. Describe various methods of anaerobiosis.
  - c) Enumerate acid fast bacilli. Describe the morphology and pathogenicity of *Mycobacterium leprae*.
  - d) Mention spirochetes pathogenic to humans. Describe the laboratory diagnosis of syphilis.
- Q.6** Write short answers any **FIVE** of the following: (10)
- a) Write laboratory diagnosis of malaria.
  - b) Enumerate the toxins and enzymes produced by *Staphylococcus aureus*.
  - c) Articles sterilized in a Hot air oven.
  - d) Enumerate various sources of infection.
  - e) What is Mutation?
  - f) Koch's postulates.