

**KAVERI-II (2008 COURSE) : APRIL/ MAY 2012**  
**SUBJECT : DENTAL MATERIALS**

Day : Tuesday  
Date : 15-05-2012

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

**SECTION-I**

- Q.1 Long Essay Question (Any One) (1 × 10 marks)**
- a) Classify Denture Base Resins. Give the composition of Heat Activated Resins. Explain in detail the compression moulding technique.
  - b) Classify Gypsum Products. Give a detailed account of setting mechanism and discuss factors that control the setting time of dental plaster.
- Q.2 Short Essay Questions (Any Three) (3 × 5 marks)**
- a) Write a note on various die materials used in dentistry.
  - b) Write a note on Elastomeric impression materials.
  - c) Dentrifices
  - d) Steps in casting procedure.
- Q.3 Short answer questions (Any Five) (5 × 2 marks)**
- a) Composition and uses of impression compound.
  - b) Enumerate various types of Abrasives used as finishing and polishing agents.
  - c) Enumerate temporary crown and bridge materials.
  - d) Types of stress and strain.
  - e) Define tarnish and corrosion.
  - f) Classify dental waxes.

**SECTION-II**

- Q.4 Long Essay Question (Any One) (1 × 10 marks)**
- a) Classify Luting cements and discuss Glass Ionomer cement in detail.
  - b) Describe composition, properties, setting reaction and manipulation of silver amalgam in detail.
- Q.5 Short Essay Questions (Any Three) (3 × 5 marks)**
- a) Phosphate bonded investment materials.
  - b) Write a note on direct filling gold.
  - c) Classify dental ceramics.
  - d) Acid Etch technique.
- Q.6 Short answer questions (Any Five) (5 × 2 marks)**
- a) Define adhesion and cohesion.
  - b) Define syneresis and imbibition.
  - c) Define metamerism and give its significance.
  - d) What is ductility and malleability?
  - e) Give composition of visible light cured composite resin.
  - f) Define pickling and give its significance.

3  
**KAVERI-II (2008 COURSE) : APRIL/ MAY 2012**  
**SUBJECT : GENERAL AND DENTAL PHARMACOLOGY AND THERAPEUTICS**

Day : Saturday  
Date : 12.05.2012

Time : 9.00 A.M. 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.

**SECTION-I**

- Q.1 Long Essay Question (ANY ONE) (10)**
- a) Classify Anti-anginal agents. Give mechanism of action, uses and adverse effects of Nitrates.
  - b) Classify adrenergic agents. Explain uses of Adrenaline with rationale.
- Q.2 Short Essay Questions (ANY THREE) (15)**
- a) Define and enlist Mummifying agents. Describe the mechanism of action, adverse effects and preparation of Tannic acid.
  - b) Define and enlist Dental Protectives. Give properties and uses of Resins.
  - c) Define and list Bleaching agents. Describe agents to remove special stains.
  - d) What is dental caries? Give details of measure to prevent dental caries.
- Q.3 Short Answer Questions (ANY FIVE) (10)**
- a) Role of Lugols Iodine in Thyrotoxicosis.
  - b) Role of Neostigmine in Post-operative Decurarization.
  - c) Enalapril-mechanism of action in hypertension.
  - d) Role of Acetazolamide in Acute Congestive Glaucoma.
  - e) Ampicillin-uses.
  - f) Metformin-Mechanism of action.

**SECTION-II**

- Q.4 Long Essay Question (ANY ONE) (10)**
- a) Classify Anti-viral agents. Give mechanism of action, adverse effects and uses of Acyclovir.
  - b) Classify Anti-epileptic agents. Write mechanism of action, adverse effects and uses of Phenytoin sodium.
- Q.5 Short Essay Questions (ANY THREE) (15)**
- a) Enzyme induction with its clinical significance.
  - b) Low molecular weight Heparin.
  - c) Omeprazole-Mechanism of action and uses.
  - d) Mebendazole-Mechanism of action and uses.
- Q.6 Short Answer Questions (ANY FIVE) (10)**
- a) Role of Chloroquine in Malaria.
  - b) Gentamicin-Adverse effects.
  - c) Diazepam-uses.
  - d) Morphine-Contra indications.
  - e) Role of Cirpfloxacin in Typhoid fever.
  - f) Atropine-uses.

**KAVERI – II (2008 COURSE) : APRIL/MAY 2012**  
**SUBJECT: GENERAL PATHOLOGY AND MICROBIOLOGY**

Day : Monday  
Date : 14.05.2012

Time : 9:00 A.M. To 12:01  
Max. Marks: 70  
NOON

**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 diagrams wherever necessary.

**SECTION – I**

- Q.1** Define thrombosis. Describe etiopathogenesis and fate of thrombus. (10)  
**OR**  
Define amyloidosis. Describe classification of amyloidosis. Mention, special stains to demonstrate amyloid.
- Q.2** Write in short about any three of the following: (15)  
a) Mention different chemical mediators in acute inflammation. Describe their functions.  
b) Describe different routes of spread of malignant tumours.  
c) Describe etiology, gross and microscopic appearance of atherosclerotic plaque.  
d) Define anaemia. Mention investigations in anaemia. Write in short about megaloblastic anaemia.
- Q.3** Write in short about any **FIVE** of the following: (10)  
a) Mention different causes of atrophy.  
b) Enumerate paraneoplastic syndromes.  
c) Define necrosis. Mention different types of necrosis.  
d) Mention investigations in Leukaemia.  
e) Mention different stages of syphilis. Write in short about congenital syphilis.  
f) Describe glucose tolerance test.

**SECTION – II**

- Q.4** Define the morphology of a bacterial cell with the help of a diagram. Mention the functions and methods of demonstration of various bacterial appendages. (10)  
**OR**  
Describe the morphology, cultural characteristics, biochemical reactions, toxin and pathogenicity of *Corynebacterium diphtheriae*. Describe the laboratory diagnosis of Diphtheria. How will you immunize a person against Diphtheria?
- Q.5** Write short notes on any **THREE**: (15)  
a) Define sterilization, disinfection and antiseptics. Describe the methods of dry heat sterilization.  
b) Define and classify immunity. Describe the mechanisms of innate immunity.  
c) Classify leprosy. Describe polar forms of leprosy and lepra reactions.  
d) Classify viruses causing oro-facial lesions. Describe the lesions produced and mode of transmission of them.
- Q.6** Write short answers on any **FIVE**: (10)  
a) Enumerate various methods of transmission of diseases with examples.  
b) Enumerate non-suppurative complications of *Streptococcus pyogenes* infection.  
c) Name four fungi causing opportunistic fungal infections.  
d) Define –Definitive and intermediate host with examples.  
e) Enumerate the steps in replication of viruses.  
f) Enumerate Koch's postulates

\* \* \*