

KAVERI - II (2008 COURSE): APRIL/MAY-2010
SUBJECT: DENTAL MATERIALS

Day: Friday
Date: 11-06-2010

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 section should be written in **SEPARATE** answer book.
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SECTION - I

Long essay questions. (Answer ANY ONE) (10)

- Q.1 a) What are the ideal requirements of impression materials? Write the composition, properties and uses of impression compound.
- b) Define and classify dental ceramics. Write a note on the composition of dental ceramics and what are the various methods to strengthen dental ceramics.

Short essay questions. (Answer ANY THREE) (15)

- Q.2 a) Write a note on the factors controlling the setting time of gypsum products.
- b) Write a note on pit and fissure sealants.
- c) Enumerate the various types of porosities in denture base resins and their causes.
- d) Define 'dies' and enumerate the various die materials used in dentistry.

Short answer questions (ANY FIVE) (10)

- Q.3 a) Application of resins in dentistry.
- b) Define polymerization and enumerate the various chemical stages of polymerization of denture base resins.
- c) Define metamerism.
- d) Differentiate between tarnish and corrosion.
- e) Differentiate between ductility and malleability.
- f) Define Hysteresis.

P.T.O.

KAVERI - II (2008 COURSE): Oct. Nov-2010
SUBJECT: DENTAL MATERIALS

Day: Wednesday
Date: 08-12-2010

Time: 10.00 A.M. To 1.00 P.M.
Max. Marks: 70

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Answers to both the section should be written in **SEPARATE** answer book.
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SECTION - I

Long essay questions. (Answer ANY ONE) (10)

- Q.1**
- a) Classify various dental cements and luting agents. Write the composition, manipulation and biological properties of zinc phosphate cement.
 - b) Classify and write the composition of different denture base resins. Write the differences between heat activated and chemically activated denture base resins.

Short essay questions. (Answer ANY THREE) (15)

- Q.2**
- a) Classify die materials and enumerate the differences between dental plaster and dental stone.
 - b) Write in short the various steps in casting procedure.
 - c) Write in short the various methods of strengthening of ceramics.
 - d) Write a note on Hygroscopic setting expansion of gypsum products.

Short answer questions (ANY FIVE) (10)

- Q.3**
- a) Define soldering and write differences between soldering and brazing.
 - b) Differentiate between elastic and plastic deformation.
 - c) Enumerate various finishing and polishing agents.
 - d) Write composition of dentifrices.
 - e) Acid etch technique.
 - f) Define syneresis and imbibition.

P.T.O.

KAVERI - II (2008 COURSE): APRIL/MAY-2010
SUBJECT: GENERAL AND DENTAL PHARMACOLOGY

Day: Monday
Date: 07-06-2010

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.

SECTION - I

Q.1 Long essay questions: (ANY ONE) (10)

- a) Classify anti-epileptic drugs. Describe the mechanism of action, uses and adverse effects of Phenytoin sodium.
- b) Classify anti-tubercular drugs. Give regimen for category I tuberculosis. Give mechanism of action and adverse effects of INH and Rifampicin.

Q.2 Short essay questions: (ANY THREE) (15)

- a) Explain the mechanism of action, preparation, uses and adverse effects of Fluorides.
- b) Define a Dentifrice. Describe its composition and explain the basis of addition of each ingredient.
- c) Define Obtundents. Name agents used in its preparation with mechanism of action.
- d) Define Mummifying Agents. Describe the mechanism of action of the agents used for this purpose.

Q.3 Short answer questions: (ANY FIVE) (10)

- a) Define half life and mention its clinical significance.
- b) Write adverse effects of Spinal anaesthesia.
- c) Enumerate uses of H₁ anti histaminic drugs.
- d) Give adverse effects of Furosemide.
- e) Enumerate uses of Atropine.
- f) Give adverse effects of Aspirin.

KAVERI - II (2008 COURSE): Oct. Nov. 2010
SUBJECT: GENERAL AND DENTAL PHARMACOLOGY & THERAPEUTICS

Day: Saturday
Date: 04.12.2010

Time: 10.00 A.M. To 1.00 P.M.
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.

SECTION - I

Q.1 Long essay questions. (ANY ONE) (10)

- a) Classify anti-coagulants. Write mechanism of action, adverse effects and uses of Warfarin.
- b) Classify anti-hypertensive agents. Describe mechanism of action, adverse effects and uses of Enalapril.

Q.2 Short essay questions: (ANY THREE) (15)

- a) Define antiseptics. Give actions and uses of Hydrogen Peroxide.
- b) Define dentifrices. Give various ingredients of dentifrice with its mechanism of action.
- c) Define mummifying agents. Describe the mechanism of action, method of application and adverse effects of Tannic acid.
- d) Describe the role of Resins in dental practice.

Q.3 Short answer questions (ANY FIVE) (10)

- a) Enumerate uses of Ciprofloxacin.
- b) Give pharmacological basis for the use of Nitrates in acute attack of Angina Pectoris.
- c) Mention uses of Morphine.
- d) Define Protein binding. Mention its clinical significance.
- e) Explain the role of ORS in diarrhoea.
- f) Give basis for the use of inhaled Salbutamol for acute bronchial asthma.

P.T.O.

KAVERI – II(2008 COURSE): APRIL / MAY – 2010
SUBJECT: GENERAL PATHOLOGY & MICROBIOLOGY

Day: Wednesday
Date: 09-06-2010

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

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Draw neat and labelled diagram **WHEREVER** necessary.
- 3) Answer to both the sections should be written in **SEPARATE** answer books.
- 4) Figures to the **RIGHT** indicate full marks.

SECTION-I

Q.1 Define granuloma. Describe the evolution of a tubercle. Describe primary complex. What are the gross and microscopic features of primary tuberculosis? What is the fate of primary tuberculosis? **(10)**

OR

Define neoplasia. Describe the different modes of spread of malignant tumours with examples.

Q.2 Write in short about Any **THREE** of the following: **(15)**

- a) Describe the stages of healing of a fracture.
- b) Enumerate the complications in Diabetes mellitus. Describe the acute complications of diabetes mellitus.
- c) Describe the etiology and pathophysiology of cardiac oedema.
- d) Mention different types of infarcts. What are the clinical features of myocardial infarction? Name the investigations for its diagnosis.

Q.3 Write in short about Any **FIVE** of the following: **(10)**

- a) Enumerate different types of Embolism. What is Caisson's disease?
- b) Enumerate chemical mediators in acute inflammation.
- c) Describe the gross and microscopic appearance of a rodent ulcer.
- d) Enumerate the investigations in anaemia.
- e) Enumerate the etiological factors for fatty liver.
- f) Enumerate the endogenous pigments. What is the classification of Jaundice?

SECTION-II

Q.4 Describe the morphology of a bacterial cell with the help of a diagram and mention the special stains and functions of the various appendages. **(10)**

OR

Mention Spirochetes pathogenic to humans. Describe the morphology, pathogenesis of syphilis causing agent. Describe the laboratory diagnosis of syphilis. **(10)**

P. T. O.

KAVERI – II(2008 COURSE): Oct·Nov·2010
SUBJECT: GENERAL PATHOLOGY & MICROBIOLOGY

Day: *Monday*
Date: *06-12-2010*

Time: *10.00 A.M. To 1.00 P.M*
Max. Marks: 70

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Draw neat and labelled diagram **WHEREVER** necessary.
- 3) Answer to both the sections should be written in **SEPARATE** answer books.
- 4) Figures to the **RIGHT** indicate full marks.

SECTION-I

Q.1 Define oedema. Discuss the etio-pathogenesis of oedema. Mention the conditions in which pulmonary oedema and cerebral oedema occurs. (10)

OR

Define necrosis. Describe etiology, gross and microscopic features of different types of necrosis.

Q.2 Write in short about Any **THREE** of the following: (15)

- a) Define phagocytosis. Name the cells having this capacity. Mention the steps in phagocytosis.
- b) Describe in short the late complications in Diabetes Mellitus.
- c) Define atherosclerosis. Mention major risk factors, pathogenesis and gross features of atherosclerosis.
- d) Define granuloma. Describe primary complex and its fate in tuberculosis.

Q.3 Write in short about Any **FIVE** of the following: (10)

- a) Enumerate etiological factors for acute appendicitis.
- b) Enumerate the tests for chemical carcinogenicity.
- c) Enumerate the investigations in bleeding disorders.
- d) What are the gross & microscopic features of squamous cell carcinoma?
- e) Enumerate different types of degenerations.
- f) What are the factors which modify wound healing?

SECTION-II

Q.4 Enumerate bacteria causing sore throat. Describe the morphology, cultural characteristics, toxin and pathogenicity of diphtheria causing micro-organism. Describe the laboratory diagnosis and immunoprophylaxis of Diphtheria. (10)

OR

Q.4 Define sterilization, disinfection and antisepsis. List the methods of sterilization. Describe the sterilization methods by dry heat and by filtration.

P. T. O.