

KAVERI - II (2008 COURSE) : WINTER - 2014
SUBJECT : DENTAL MATERIALS

Day : *Saturday*
Date : *08-11-2014*

Time : *9:00 A.M. To 12:00 Noon*
Max. Marks : 70

N. B. :

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

SECTION - I

Q. 1 Long Essay Questions (ANY ONE) (1 × 10 Marks)

- a) Classify impression materials. Write composition, manipulation, setting reaction, setting time, factors controlling setting time of zinc oxide eugenol impression paste.
- b) Define and classify Dental Ceramics. Write a note on recent advances in dental ceramics.

Q. 2 Short Essay Questions (ANY THREE) (3 × 5 Marks)

- a) Classify Dental Casting Alloys, Giving application of each.
- b) Write composition and ideal requirements of inlay casting wax.
- c) Hygroscopic setting expansion of gypsum products.
- d) Classify dental investment materials. Why gypsum bonded investment should not be heated above 700° C?

Q. 3 Short Answer Questions (ANY FIVE) (5 × 2 Marks)

- a) Ideal requirements of denture base resin.
- b) Laminate technique.
- c) Ductility and malleability.
- d) Define annealing and mention its stages.
- e) Tarnish and corrosion.
- f) Define stress and strain.

SECTION - II

Q. 4 Long Essay Questions (ANY ONE) (1 × 10 Marks)

- a) Define and classify composite resins. Discuss Hybrid composite resins and flowable composites.
- b) Define Dental Amalgam. Classify dental amalgam alloy. Describe composition, setting reaction and manipulation of silver amalgam in detail.

Q. 5 Short Essay Questions (ANY THREE) (3 × 5 Marks)

- a) Write a note on direct filling gold.
- b) Write a note on calcium hydroxide cement.
- c) What is Desorbing or degassing?
- d) Three dimensions of color.

Q. 6 Short Answer Questions (ANY FIVE) (5 × 2 Marks)

- a) Cavity liners and cavity varnish.
- b) Define imbibition and syneresis.
- c) Define pickling and give its significance.
- d) Classify Dental Cements.
- e) 18-8 stainless steel.

WINTER - 2014
KAVERI - II (2008 COURSE) :
SUBJECT : GENERAL AND DENTAL PHARMACOLOGY AND THERAPEUTICS

Day : Saturday
Date : 01-11-2014

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

N. B. :

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

SECTION - I

Q. 1 Long Essay Questions (ANY ONE) (10)

- a) Classify adrenergic drugs. Explain uses of adrenaline giving reasons and its route of administration for each condition.
- b) Classify diuretics. Write mechanism of action, uses and adverse effects of thiazides.

Q. 2 Short Essay Questions (ANY THREE) (15)

- a) Enlist and describe dental abrasives.
- b) What are astringents? Classify them and mention their uses.
- c) Define dental caries. Mention agents used in its treatment.
- d) Define and enlist bleaching agents. Describe agents to remove special stains.

Q. 3 Short Answer Questions (ANY FIVE) (10)

- a) Use of atropine-pralidoxime in organo-phosphorus poisoning.
- b) Treatment of acute attack of angina pectoris.
- c) Rationale for use of inhalational corticosteroids in bronchial asthma.
- d) Mention 2 uses of metoclopramide with rationale.
- e) Enumerate 4 adverse effects of ACE inhibitors.
- f) Enlist 4 atropine substitutes with their uses.

SECTION - II

Q. 4 Long Essay Questions (ANY ONE) (10)

- a) Classify corticosteroids. Describe their uses and adverse effects in detail.
- b) Classify anti-tubercular drugs. Describe treatment of category I TB with mechanism of action, adverse effects and status of Rifampicin.

Q. 5 Short Essay Questions (ANY THREE) (15)

- a) First pass metabolism
- b) Fibrinolytic agents
- c) Uses of opioid analgesics
- d) Sulfonamide combinations in clinical practice

Q. 6 Short Answer Questions (ANY FIVE) (10)

- a) Rationale for use of Human Insulin in pregnant diabetics.
- b) Enumerate antitussive agents with their use.
- c) Mention 4 uses of Diazepam.
- d) Rationale for combination of Magnesium and Aluminium salts in antacid preparations.
- e) Mention actions of Non-steroidal anti-inflammatory drugs with 4 uses.
- f) Explain use of parenteral vitamin B₁₂ in pernicious anemia.

KAVERI - II (2008 COURSE): WINTER - 2014
SUBJECT : GENERAL PATHOLOGY & MICROBIOLOGY

Day : Wednesday
Date : 05-11-2014

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 the **SEPARATE** answer books.

SECTION - I

Q.1 Define neoplasia. Write differences between benign and malignant tumours. [10]
Enumerate routes of metastasis.

OR

What is repair? Describe in detail healing of a fractured bone.

Q.2 Write short notes on **ANY THREE** questions of the following: [15]

- a) Phagocytosis
- b) Classify chemical carcinogens. Write in detail about chemical carcinogenesis.
- c) What are leukaemias? Classify them. Enumerate the tests done for their laboratory diagnosis.
- d) Define and classify Embolism. Write note on pulmonary embolism.

Q.3 Write short notes on **ANY FIVE** questions of the following: [10]

- a) Lepromatous leprosy
- b) Fate of a thrombus
- c) Enumerate stages of lobar pneumonia. Write gross morphology changes in the lung suffering from lobar pneumonia.
- d) Laboratory investigations done in a case of bleeding disorder
- e) Causes of megaloblastic anemia
- f) What is atrophy? Give four causes of atrophy.

SECTION - II

Q.4 Describe the morphology, cultural characteristics and pathogenicity of *Mycobacterium tuberculosis*. Describe the laboratory diagnosis of pulmonary tuberculosis. How would you immunize a person against tuberculosis? [10]

OR

Write the differences between bacteria and viruses. Describe the laboratory diagnosis of viral infections.

Q.5 Write short notes on **ANY THREE** questions of the following: [15]

- a) Describe the structure and functions of immunoglobulins.
- b) Define sterilization; disinfection and antisepsis. Describe the various types and uses of filters.
- c) Enumerate cariogenic microorganisms. Describe the factors affecting dental caries.
- d) Name the pathogenic anaerobic bacteria. Describe the pathogenesis and laboratory diagnosis of gas gangrene.

Q.6 Write short answers on **ANY FIVE** questions of the following: [10]

- a) Enumerate the developmental stages of *Plasmodium* species in human cycle.
- b) Mention four factors predisposing to opportunistic fungal infections.
- c) Write functions and methods for demonstration of spore.
- d) Enumerate treponemal tests for diagnosis of syphilis.
- e) Define plasmids and give their importance.