

KAVERI-II (2008 COURSE) : SUMMER 2017
SUBJECT: DENTAL MATERIALS

Day : Saturday
Date : 06/05/2017

Time: 09.00 AM 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.
- 4) Draw neat labeled diagrams **WHEREVER** necessary.

SECTION-I

Q.1 Long Essay Questions (Any One) (10)

- a) Write classification of impression materials. Discuss composition, setting reaction, manipulation of irreversible hydrocolloid impression material.
- b) Describe casting procedure in detail. Classify casting defects.

Q.2 Short Essay Questions (Any Three) (15)

- a) Define tarnish and corrosion. Write a note on electrochemical corrosion.
- b) Injection molding technique.
- c) Classification of dental waxes, explain the flow of wax.
- d) Enumerate the ideal properties of denture base resin and explain the denture porosities.

Q.3 Short Answer Questions (Any Five) (10)

- a) Hyglosopic setting expansion.
- b) Three dimensions of colour
- c) Ductility and maleability.
- d) Enumerate various types of abrasives used as finishing and polishing material.
- e) Define and classify stress.
- f) Composition of ceramic.

SECTION-II

Q.4 Long Essay Questions (Any One) (10)

- a) Describe the composition of composite resin and classify them. Discuss advantages and disadvantages of composite resins as posterior restorative material. Write short note on nano-composites.
- b) Write in detail composition, setting reaction and types of GIC. Write a note on Resin-modified GIC.

Q.5 Short Essay Questions (Any Three) (15)

- a) Delayed expansion
- b) high copper amalgam
- c) What are requirements of die materials? Write materials used for fabrication of Dental Die.
- d) Methods of strengthening ceramics.

Q.6 Short Answer Questions (Any Five) (10)

- a) Age hardening.
- b) Define hybrid layer.
- c) Disinfection of Elastomeric impressions.
- d) Mercury alloy ratio.
- e) Cavity liners and cavity varnish.
- f) Enumerate luting cements used in dentistry.

KAVERI-II (2008 COURSE) : SUMMER 2017
SUBJECT: GENERAL PATHOLOGY AND MICROBIOLOGY

Day : Thursday
Date : 04/05/2017

Time: 9.00 AM 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.
- 4) Draw neat labeled diagrams **WHEREVER** necessary.

SECTION-I

Q.1 Define Neoplasia. Enumerate premalignant conditions of the oral mucosa. Describe (10)
methods of laboratory diagnosis of malignant tumors.

OR

Describe pathogenesis of irreversible cell injury. Add a note on free radical injury.

Q.2 Short Essay Questions (**Any Three**) (15)

- a) Describe lesions of primary and secondary tuberculosis of lung.
- b) Define repair. Describe healing of a skin wound by secondary intention.
- c) Describe pathogenesis of cardiac oedema.
- d) Laboratory investigations of anemia.

Q.3 Short Answer Questions (**Any Five**) (10)

- a) Phagocytosis.
- b) Differences between dry and wet gangrene.
- c) Enumerate complications in an atheromatous plaque.
- d) Fatty liver.
- e) Aetiology and clinical features of rickets.
- f) Dystrophic calcification.

SECTION-II

Q.4 Enumerate spirochetes. Describe the morphology, pathogenesis and laboratory (10)
diagnosis of infection caused by *Treponema pallidum*.

OR

Define and classify immunity. Describe the mechanisms and factors affecting innate immunity.

Q.5 Short Essay Questions (**Any Three**) (15)

- a) Classify viruses causing oro-facial lesions. Describe the lesions produced and modes of transmission of them.
- b) Define sterilization and disinfection. Describe the principle, working and uses of autoclave.
- c) Classify leprosy. Describe polar forms of leprosy and lepra reactions.
- d) Write the difference between *Streptococcus viridans* and *Streptococcus pneumoniae*.

Q.6 Short Answer Questions (**Any Five**) (10)

- a) What is mutation?
- b) Enumerate bacterial virulence factors.
- c) Mention four factors predisposing to opportunistic fungal infections.
- d) Enumerate the developmental stages of *Plasmodium* species in human cycle.
- e) Write Koch's postulates.
- f) Define and give two examples of enriched media.

Day : Tuesday
Date : 02/05/2017

Time: 09.00 AM 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 Questions (Any One) (10)

- a) Classify anticholinergic drugs. Enumerate uses of these drugs giving appropriate examples.
- b) Classify antihypertensive agents. Write mechanism of action, uses and adverse effects of any one group.

Q.2 Short Essay Questions (Any Three) (15)

- a) Mention properties of ideal antiseptic agent. Classify antiseptic agents giving examples.
- b) Define the term demulcent. Write in detail about Glycerine.
- c) Define obtundents. Classify obtundents according to their mechanism of action giving examples.
- d) Define bleaching agents. Enlist some bleaching agents with their uses.

Q.3 Short Answer Questions (Any Five) (10)

- a) Mention advantages and disadvantages of sublingual route of administration
- b) Enumerate 4 uses of beta blockers
- c) Classify drugs reducing gastric acid secretion
- d) Write a note on antitussive agents
- e) Explain why nitroglycerine is used to abort the acute attack of angina pectoris
- f) What is teratogenicity? Give two examples of teratogenic drugs.

SECTION-II

Q.4 Long Essay Questions (Any One) (10)

- a) Classify local anesthetic agents. Describe their mechanism of action, uses and adverse effects.
- b) Name first line anti-tubercular drugs with their mechanism of action. Describe the treatment of Category I tuberculosis.

Q.5 Short Essay Questions (Any Three) (15)

- a) Mention 5 uses of H₁ antihistaminics.
- b) Discuss Metformin with respect to its mechanism of action, uses and adverse effects.
- c) Uses of Metronidazole.
- d) Describe the uses and adverse effects of Morphine.

Q.6 Short Answer Questions (Any Five) (10)

- a) Name two topical antifungal agents with their uses.
- b) Mention rationale for combination of Amoxicillin and Clavulanic acid
- c) Define preanesthetic medication. Mention 2 groups of drugs given for preanesthetic medication.
- d) Name any 2 antiplatelet agents along with their uses.
- e) Enumerate 4 important clinical uses of corticosteroids.
- f) Why injectable vitamin B₁₂ is given in Pernicious anemia?