

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

Day : Monday  
Date : 07-11-2016

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.

**SECTION-I**

- Q.1** Long Essay Questions (Any **ONE**) (10)
- a) Classify anticoagulants. Give mechanism of action, uses and adverse effects of Heparin.
  - b) Classify  $\beta$  adrenergic antagonists with examples. Explain uses and adverse effects of  $\beta$  blockers.
- Q.2** Short Essay questions (Any **THREE**) (15)
- a) Define obtundents. Classify obtundents and describe any one agent in detail.
  - b) Mention properties of ideal dentifrice. Enumerate the ingredients of dentifrice and role of each.
  - c) Enlist and describe root canal filling material.
  - d) Define and enlist mummifying agents. Describe the mechanism of action and adverse effects of tannic acid.
- Q.3** Write short answers (Any **FIVE**) (10)
- a) Mention 4 atropine substitutes with their uses.
  - b) Explain the term drug tolerance giving example.
  - c) Enumerate different types of drug antagonism and explain physiological antagonism.
  - d) Comment on the use of Furosemide in pulmonary edema.
  - e) Explain role of mucolytics in productive cough.
  - f) Enumerate 2 prokinetic agents along with their uses.

**SECTION-II**

- Q.4** Long Essay Questions (Any **ONE**) (10)
- a) Classify drugs used in malaria. Write mechanism of action, uses and adverse effects of chloroquine.
  - b) Classify oral antidiabetic agents. Mention mechanism of action, uses and adverse effects of Sulfonylureas.
- Q.5** Short Essay questions (Any **THREE**) (15)
- a) Doxycycline – Mechanism of action, uses and adverse effects.
  - b) Mention differences between Diazepam and Phenobarbitone.
  - c) Treatment of iron deficiency anemia.
  - d) Uses of  $H_1$  antihistaminics.
- Q.6** Write short answers (Any **FIVE**) (10)
- a) Rationale for combining Levodopa and carbidopa in treatment of Parkinsonism.
  - b) Use of Prostaglandins in Medical termination of pregnancy.
  - c) Mention 2 uses and 2 adverse effects of Ibuprofen.
  - d) Post exposure prophylaxis of HIV infection.
  - e) Enumerate 4 uses of Hydrocortisone.
  - f) Give 2 examples of antiplatelet drugs with their uses.

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

Day : Monday  
Date : 07-11-2016

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.

**SECTION-I**

- Q.1 Long Essay Questions (Any ONE) (10)**
- a) Classify anticoagulants. Give mechanism of action, uses and adverse effects of Heparin.
  - b) Classify  $\beta$  adrenergic antagonists with examples. Explain uses and adverse effects of  $\beta$  blockers.

- Q.2 Short Essay questions (Any THREE) (15)**
- a) Define obtundents. Classify obtundents and describe any one agent in detail.
  - b) Mention properties of ideal dentifrice. Enumerate the ingredients of dentifrice and role of each.
  - c) Enlist and describe root canal filling material.
  - d) Define and enlist mummifying agents. Describe the mechanism of action and adverse effects of tannic acid.

- Q.3 Write short answers (Any FIVE) (10)**
- a) Mention 4 atropine substitutes with their uses.
  - b) Explain the term drug tolerance giving example.
  - c) Enumerate different types of drug antagonism and explain physiological antagonism.
  - d) Comment on the use of Furosemide in pulmonary edema.
  - e) Explain role of mucolytics in productive cough.
  - f) Enumerate 2 prokinetic agents along with their uses.

**SECTION-II**

- Q.4 Long Essay Questions (Any ONE) (10)**
- a) Classify drugs used in malaria. Write mechanism of action, uses and adverse effects of chloroquine.
  - b) Classify oral antidiabetic agents. Mention mechanism of action, uses and adverse effects of Sulfonylureas.

- Q.5 Short Essay questions (Any THREE) (15)**
- a) Doxycycline – Mechanism of action, uses and adverse effects.
  - b) Mention differences between Diazepam and Phenobarbitone.
  - c) Treatment of iron deficiency anemia.
  - d) Uses of  $H_1$  antihistaminics.

- Q.6 Write short answers (Any FIVE) (10)**
- a) Rationale for combining Levodopa and carbidopa in treatment of Parkinsonism.
  - b) Use of Prostaglandins in Medical termination of pregnancy.
  - c) Mention 2 uses and 2 adverse effects of Ibuprofen.
  - d) Post exposure prophylaxis of HIV infection.
  - e) Enumerate 4 uses of Hydrocortisone.
  - f) Give 2 examples of antiplatelet drugs with their uses.

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

Day : *Wednesday*  
Date : *09-11-2016*

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.

**SECTION-I**

**Q.1** Define inflammation. Enumerate cardinal signs of inflammation. Describe phagocytosis in detail. (10)

**OR**

Define thrombosis. Describe its pathogenesis. Enumerate fates of a thrombus. Enumerate clinical effects of thrombosis.

**Q.2** Write short notes on any **THREE** of the following: (15)

- a) Differences between benign and malignant tumours.
- b) Classify carcinogens. Write in detail about physical carcinogenesis.
- c) Laboratory diagnosis of leukemia.
- d) Complications of diabetes mellitus.

**Q.3** Write short answers any **FIVE** of the following: (10)

- a) Gross and microscopic appearance of fatty liver
- b) Organs involved and type of protein deposited in secondary amyloidosis
- c) Define hyperplasia and hypertrophy
- d) Rickets
- e) Enumerate stages of lobar pneumonia mention any 2 complications.
- f) Pathogenesis of miliary tuberculosis.

**SECTION-II**

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

**OR**

Enumerate spore-bearing organisms. Describe the morphology, cultural characteristics, biochemical reactions, toxins and enzymes produced and pathogenicity of *Clostridium welchii*. Discuss the laboratory diagnosis of gas gangrene.

**Q.5** Write short notes on any **THREE** of the following: (15)

- a) Describe the general properties and replication of viruses.
- b) Define sterilization and disinfection. Describe the principle, working and uses of autoclave.
- c) Enumerate cariogenic microorganisms. Describe the factors affecting dental caries.
- d) Classify and describe hypersensitivity reactions with suitable examples.

**Q.6** Write short answers any **FIVE** of the following: (10)

- a) BCG vaccine
- b) Define definitive and intermediate hosts with examples.
- c) Define zoonosis and give two examples of zoonotic diseases.
- d) Elek's gel precipitation test.
- e) Write four differences between bacteria and fungi.
- f) Functions and methods for demonstration of capsule.

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

Day : Wednesday  
Date : 09-11-2016

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.

**SECTION-I**

**Q.1** Define inflammation. Enumerate cardinal signs of inflammation. Describe phagocytosis in detail. (10)

**OR**

Define thrombosis. Describe its pathogenesis. Enumerate fates of a thrombus. Enumerate clinical effects of thrombosis.

**Q.2** Write short notes on any **THREE** of the following: (15)

- a) Differences between benign and malignant tumours.
- b) Classify carcinogens. Write in detail about physical carcinogenesis.
- c) Laboratory diagnosis of leukemia.
- d) Complications of diabetes mellitus.

**Q.3** Write short answers any **FIVE** of the following: (10)

- a) Gross and microscopic appearance of fatty liver
- b) Organs involved and type of protein deposited in secondary amyloidosis
- c) Define hyperplasia and hypertrophy
- d) Rickets
- e) Enumerate stages of lobar pneumonia mention any 2 complications.
- f) Pathogenesis of miliary tuberculosis.

**SECTION-II**

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

**OR**

Enumerate spore-bearing organisms. Describe the morphology, cultural characteristics, biochemical reactions, toxins and enzymes produced and pathogenicity of *Clostridium welchii*. Discuss the laboratory diagnosis of gas gangrene.

**Q.5** Write short notes on any **THREE** of the following: (15)

- a) Describe the general properties and replication of viruses.
- b) Define sterilization and disinfection. Describe the principle, working and uses of autoclave.
- c) Enumerate cariogenic microorganisms. Describe the factors affecting dental caries.
- d) Classify and describe hypersensitivity reactions with suitable examples.

**Q.6** Write short answers any **FIVE** of the following: (10)

- a) BCG vaccine
- b) Define definitive and intermediate hosts with examples.
- c) Define zoonosis and give two examples of zoonotic diseases.
- d) Elek's gel precipitation test.
- e) Write four differences between bacteria and fungi.
- f) Functions and methods for demonstration of capsule.

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

Day : Friday  
Date : 11-11-2016

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.
- 4) Draw neat labeled diagrams **WHEREVER** necessary.

**SECTION-I**

- Q.1 Long Essay Questions (Any ONE, 1 x 10 marks) (10)**
- a) Mention ideal properties of Denture Base Resins. Give composition of Heat cure and cold cure Denture Base Resins. Explain in detail Compression Molding Technique.
- OR**
- b) Classify dental ceramics. Write a note on methods of strengthening of dental ceramics.
- Q.2 Short Essay questions (Any THREE, 3 x 5 marks) (15)**
- a) Explain defects in casting.
  - b) Write difference between abrasion and polishing. Discuss benefits of polishing.
  - c) Write a note on the factors controlling setting time of gypsum products.
  - d) Define and classify dental investment materials.
- Q.3 Write short answers (Any FIVE, 5 x 2 marks) (10)**
- a) Composition of irreversible hydrocolloid.
  - b) Coefficient of thermal expansion.
  - c) Dimensions of color.
  - d) Define soldering, welding and flux.
  - e) Define and classify stress.
  - f) 18-8 stainless-steel.

**SECTION-II**

- Q.4 Long Essay Questions (Any ONE, 1 x 10 marks) (10)**
- a) Classify dental cements. Give ideal requirements of dental cements. Give composition, uses of GIC. Write a note on resin modified GIC – compomer.
- OR**
- b) What you understand by the term “Composite resin?” Classify dental composite resin. Give the composition, properties, advantages and disadvantages of visible light cured composite resin. Write a note on acid etching for Composite resin.
- Q.5 Short Essay questions (Any THREE, 3 x 5 marks) (15)**
- a) Luting cements.
  - b) High copper amalgam alloy.
  - c) Gold foil.
  - d) Delayed expansion.
- Q.6 Write short answers (Any FIVE, 5 x 2 marks) (10)**
- a) Application of calcium hydroxide in dentistry.
  - b) Ideal requirements of orthodontic wires.
  - c) What is tarnish? Write causes of tarnish.
  - d) Creep and flow.
  - e) Trituration.
  - f) Electroformed die.

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

Day : *Friday*  
Date : *11-11-2016*

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.
- 4) Draw neat labeled diagrams **WHEREVER** necessary.

**SECTION-I**

- Q.1 Long Essay Questions (Any ONE, 1 x 10 marks) (10)**
- a) Mention ideal properties of Denture Base Resins. Give composition of Heat cure and cold cure Denture Base Resins. Explain in detail Compression Molding Technique.
- OR**
- b) Classify dental ceramics. Write a note on methods of strengthening of dental ceramics.
- Q.2 Short Essay questions (Any THREE, 3 x 5 marks) (15)**
- a) Explain defects in casting.
  - b) Write difference between abrasion and polishing. Discuss benefits of polishing.
  - c) Write a note on the factors controlling setting time of gypsum products.
  - d) Define and classify dental investment materials.
- Q.3 Write short answers (Any FIVE, 5 x 2 marks) (10)**
- a) Composition of irreversible hydrocolloid.
  - b) Coefficient of thermal expansion.
  - c) Dimensions of color.
  - d) Define soldering, welding and flux.
  - e) Define and classify stress.
  - f) 18-8 stainless-steel.

**SECTION-II**

- Q.4 Long Essay Questions (Any ONE, 1 x 10 marks) (10)**
- a) Classify dental cements. Give ideal requirements of dental cements. Give composition, uses of GIC. Write a note on resin modified GIC – compomer.
- OR**
- b) What you understand by the term “Composite resin?” Classify dental composite resin. Give the composition, properties, advantages and disadvantages of visible light cured composite resin. Write a note on acid etching for Composite resin.
- Q.5 Short Essay questions (Any THREE, 3 x 5 marks) (15)**
- a) Luting cements.
  - b) High copper amalgam alloy.
  - c) Gold foil.
  - d) Delayed expansion.
- Q.6 Write short answers (Any FIVE, 5 x 2 marks) (10)**
- a) Application of calcium hydroxide in dentistry.
  - b) Ideal requirements of orthodontic wires.
  - c) What is tarnish? Write causes of tarnish.
  - d) Creep and flow.
  - e) Trituration.
  - f) Electroformed die.