

II – B.D.S. (2008 COURSE) : WINTER - 2018

SUBJECT: DENTAL MATERIALS

Day: Friday
Date: 07/12/2018

W-2018-3755

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

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

- a) Classify luting cements and describe in detail about zinc phosphate cement
- b) What is an amalgam? Describe the composition and amalgamation reaction of silver amalgam. Write a note on high copper silver amalgam alloy.

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

- a) Cavity varnish, bases and liners.
- b) Write a note on Dentifrices.
- c) Compare and contrast acrylic teeth and porcelain teeth.
- d) What is soldering and welding? Write about the procedure of soldering.

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

- a) Define 'Thixotropy' and give its significance
- b) Define adhesion and cohesion.
- c) Define hue, value and chroma.
- d) Define hardness. Enumerate tests for hardness.
- e) Enumerate Dental implant materials.
- f) Define hybrid layer in composites.

SECTION-II

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

- a) Classify impression materials and discuss in detail about irreversible hydrocolloid impression material.
- b) Classify dental ceramics. Discuss composition, sintering process and methods of strengthening ceramics.

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

- a) Composition and types of GIC.
- b) Write short note on Casting defects.
- c) Write note on Gypsum bonded investment materials
- d) Write short note on manipulation of heat activated denture base resins.

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

- a) Define modulus of elasticity. Give its significance.
- b) Classify gypsum products.
- c) Uses of zinc oxide eugenol cement.
- d) Enumerate different types of dental waxes.
- e) Define karat and fineness.
- f) Enumerate abrasive and polishing agents used in dentistry.

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II – B.D.S. (2008 COURSE) : WINTER - 2018

SUBJECT: GENERAL AND DENTAL PHARMACOLOGY AND THERAPEUTICS

Day : Monday
Date : 03/12/2018

W-2018-3753

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) Classify adrenergic drugs. Enumerate uses of these drugs giving appropriate examples.
 - b) Classify anti-emetic drugs with examples. Describe mechanism of action, uses and adverse effects of metoclopramide.
- Q.2** Short Essay Questions (**Any Three**) (15)
- a) Define dentrifices. Give various ingredients of dentrifice with its mechanism of action.
 - b) What are astringents? Add a note on Tannic acid.
 - 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** Write short answer (**Any Five**) (10)
- a) Mention advantages and disadvantages of oral route of administration.
 - b) Enumerate 4 atropine substitutes with their uses.
 - c) Mention 2 uses and 2 adverse effect of Furosemide.
 - d) Write a note on mucolytic agents.
 - e) Give pharmacological basis for the use of Enalapril in congestive cardiac failure.
 - f) Define synergism giving two examples.

SECTION-II

- Q.4** Long Essay Questions (**Any One**) (10)
- a) Classify analgesic agents. Discuss the mechanism of action, uses and adverse effects of morphine.
 - b) Classify antidiabetic agents. Describe the mechanism of action and adverse effects of any one group in details.
- Q.5** Short Essay Questions (**Any Three**) (15)
- a) Enumerate uses of Benzodiazepines with drug used and route of administration.
 - b) Discuss mechanism of action, uses and adverse effects of Amoxycillin.
 - c) List uses of H₁ antihistamines.
 - d) Name 2 anticoagulants and mention their uses.
- Q.6** Write short answer (**Any Five**) (10)
- a) Define bactericidal agents giving examples.
 - b) Mention the long term adverse effects of corticosteroids.
 - c) Name one parenteral iron preparation and give its indications.
 - d) Enumerate advantages of combining adrenaline with lignocaine.
 - e) Name 2 antimicrobials which are unsafe in pregnancy giving reasons.
 - f) Enlist the benefits of oral contraceptives.

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II – B.D.S. (2008 COURSE) : WINTER - 2018
SUBJECT: GENERAL PATHOLOGY AND MICROBIOLOGY

Day : Wednesday
Date : 05/12/2018

W-2018-3754

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) Describe pathogenesis of thrombosis. Describe clinical effects of thrombosis.
 - b) Define inflammation. Describe vascular events of acute inflammation. Enumerate causes of increased vascular permeability.
- Q.2** Short Essay Questions (**Any Three**) **(15)**
- a) Describe the gross and microscopic appearance of different stages of lobar pneumonia.
 - b) Define repair. Describe healing of a fractured bone.
 - c) Write Pathologic calcification.
 - d) Enumerate three tests done for laboratory diagnosis of myocardial infarction.
- Q.3** Write short answer (**Any Five**) **(10)**
- a) Define neoplasia. Enumerate malignant tumours arising from different types of epithelium.
 - b) Enumerate the investigations done in a case of anemia.
 - c) What is the cause of scurvy? Mention 2 clinical features of scurvy.
 - d) Enumerate 3 causes of fatty liver.
 - e) Enumerate complications of atherosclerosis.
 - f) Give 3 examples of premalignant conditions in different organs.

SECTION-II

- Q.4** Long Essay Questions (**Any One**) **(10)**
- a) Enumerate spore-bearing organisms. Describe the morphology, cultural characteristics, biochemical reactions, toxins, enzymes produced and pathogenicity of *Clostridium welchii*. Discuss the laboratory diagnosis of gas gangrene.
 - b) Define sterilization, disinfection and antisepsis. Write in detail sterilization by moist heat.
- Q.5** Short Essay Questions (**Any Three**) **(15)**
- a) Describe the structure and functions of immunoglobulins.
 - b) Write the differences between *Streptococcus viridans* and *Streptococcus pneumoniae*.
 - c) Describe the general properties and replication of viruses.
 - d) Classify leprosy. Describe polar forms of leprosy and lepra reactions.
- Q.6** Write short answer (**Any Five**) **(10)**
- a) Elek's gel precipitation test.
 - b) Enumerate the markers of pathogenicity of staphylococci.
 - c) Enumerate various virulence factors in bacteria.
 - d) Write the infective form and mode of entry of *Entamoeba histolytica*.
 - e) Write four differences between bacteria and fungi.
 - f) Enumerate stages with respective lesions of syphilis.

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