



GOVERNMENT OF KERALA
DIRECTORATE OF MEDICAL EDUCATION
DIPLOMA IN DENTAL HYGIENIST COURSE REGULAR EXAMINATION MAY 2023
DCDH-F-I-MAY-2023

Time : 3 hrs.

Part I - Paper –I

Max.marks : 75

ANATOMY, PHYSIOLOGY & HISTOLOGY

(Answer all questions & Draw diagrams wherever necessary. Answer Section A & B separately)

SECTION -A

- I. Essay** (2x10=20)
- Describe the scalp
 - Describe the trigeminal nerve
- II. Write briefly on :** (3x5=15)
- Compound epithelium
 - Muscles of facial expression
 - Parotid gland
- III. Write short notes on :** (5x3=15)
- Cardiac muscles
 - Maxillary air sinus
 - Medium sized artery
 - Fibro cartilage
 - Tongue

SECTION – B

- I. Write short notes on:** (5x4=20)
- Reflex action
 - Insulin
 - Enzymes in pancreatic juice
 - Heart sounds
 - Erythropoiesis
- II. Answer the following:-** (5x1=5)
- Normal platelet count
 - Normal respiratory rate
 - Name the basic taste modalities
 - Name the functional unit of the kidney
 - Name the female sex hormones



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Max.marks : 75

Time : 3 hrs. **Part I – Paper II**
PHARMACOLOGY, PATHOLOGY, MICROBIOLOGY & ORAL PATHOLOGY

(Answer all questions & Draw diagrams wherever necessary.
Answer Section A,B,C & D separately)

SECTION A

- I. Mention different routes of drug administration. Mention two advantages and two disadvantages of any two routes (6)
- II. Classify Penicillin. Mention 2 uses and 2 adverse effects of Penicillin (6)
- III. Write short notes (6x2=12)
- | | |
|---------------|---------------------|
| a. Morphine | b. Tetracyclin |
| c. Styptics | d. Plasma half life |
| e. Omeprazole | f. Aspirin |
- IV. Name the following (6x1=6)
- | | |
|-----------------------------|--|
| a. One alpha blocker | b. One angiotensin receptor blocker |
| c. One antituberculous drug | d. Drug of choice in paracetamol poisoning |
| e. Heparin antidote | f. Drug of choice in anaphylactic shock |
- V. Mention two important adverse effect and one use of the following (2x 3 =6)
- | | |
|---------------|--|
| a. Insulin | |
| b. Quinolones | |

SECTION B

- I.
- a. Define neoplasm. Write down the differences between benign and malignant neoplasm. Gove one examples for benign and malignant tumour (1+1+3=5)
- II. **Write short notes on :** (4x2=8)
- a. Vascular events in acute inflammation
- b. Vitamin A Deficiency
- c. Diabetes mellitus
- d. Syphilis

SECTION C

- I. **ESSAY:-**
- a. Describe the modes of transmission, clinical features, Laboratory diagnosis, treatment and prophylaxis of HIV infection (7)
- II. **Write short notes on:-** (2x3=6)
- a. Dental caries
- b. Bacterial growth curve

SECTION D

- I. Define Oral Premalignant Lesion and Condition. Discuss in detail about Leukoplakia. (5)
- II. **Write Short notes :** (4x2=8)
- a. Gingival Enlargement
- b. Zones of Dental Pulp
- c. Notations of Teeth
- d. Principal fibers of Periodontal Ligament.

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MAY 2023

DCDH-F-III-MAY-2023

Time : 3 hrs. Part I - Paper –III Max.marks : 75
FOOD AND NUTRITION & RADIOLOGY
(Answer all questions Section A & B separately and draw diagrams wherever necessary)

SECTION –A

1. What is the normal serum calcium level? How are calcium levels regulated by the body. Briefly explain the sources, requirement functions and calcium deficiency manifestations .(1+5+9=15)

2. Short Essays (5x5=25)
 - a. Heme catabolism.
 - b. Hormonal regulation of blood glucose
 - c. Structure and functions of Immunoglobulins
 - d. Phospholipids and their clinical importance.
 - e. Fluid mosaic model of cell membrane

3. Answer Briefly (5x2=10)
 - a. Essential amino acids
 - b. Scurvy
 - c. Reducing substances in urine
 - d. Lipoproteins
 - e. Functions of carbohydrates

SECTION B

1. Explain Dental X-ray machine with its components and methods of production of X-rays. (10)

2. Short notes: (3x5=15)
 - a. Biological effects on Oral Tissues
 - b. Collimators and Filtrations
 - c. Film Processing

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MAY 2023

DCDH-S-I-MAY 2023

Time : 3 hrs.

Part II - Paper –I

Max.marks: 75

DENTAL HYGIENE AND ORAL PROPHYLAXIS
(Answer Section A & B separately and draw diagrams wherever necessary)

SECTION - A

- I. Describe the basic principles of instrumentation. Write a note on sharpening of periodontal instruments (15+5=20)
- II. Write short notes on: (3x5=15)
- a. Formation of dental plaque
 - b. Periodontal ligament fibres
 - c. Supragingival scaling

SECTION –B

- III. Define gingival. Describe the normal clinical and microscopic features of gingival and correlation of clinical and microscopic features. (2+8+4+6=20)
- IV. Write short notes on: (4x5=20)
- a. Age changes in periodontium
 - b. Differences between supragingival and subgingival calculus
 - c. Fenestration and Dehiscence
 - d. Types of cementum

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MAY 2023

DCDH-S-II-MAY 2023

Time : 3 hrs

Part II - Paper –II

Max.marks: 75

DENTAL HEALTH EDUCATION, PUBLIC HEALTH & PREVENTIVE DENTISTRY
(Answer Section A & B separately and draw diagrams wherever necessary)

SECTION – A

- I. Define dental auxiliary. Classify dental auxiliaries. Write in detail about non-operating dental auxiliaries (2+2+16=20)

- II. Write short notes on : (3x5=15)
 - a. Principles of health education
 - b. Acidulated phosphate fluoride
 - c. Host factors in the etiology of dental caries

SECTION – B

- I. Describe in detail about the levels of prevention of oral cancer (20)

- II. Write short notes on: (4x5=20)
 - a. Interdental cleaning aids
 - b. Smokeless forms of tobacco
 - c. ART
 - d. Mechanism of action of fluorides

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MAY 2023

DCDH-S-III-May-2023

Time : 3 hrs.

Part II - Paper –III

Max.marks: 75

DENTAL MATERIALS, DENTAL ETHICS AND JURISPRUDENCE ORIENTATION IN DENTISTRY
(Answer Section A & B separately and draw diagrams wherever necessary)

SECTION –A

- I. Classify Direct Filling Gold. Write in detail on manipulation of Direct Filling Gold. Mention the advantages and disadvantages of the material?
(3+3+2+2=10)

- II. Define dental cements. Describe the composition, manipulation, setting reaction and advantages of Zinc Polycarboxylate cement?
(1+3+2+2+2=10)

- III. Write short notes on: (3x5=15)
 - a. Polymerization mechanisms in dental composites
 - b. Triburation of Dental Amalgam
 - c. Fluoride Varnish

SECTION B

- I. Classify Impression materials used in dentistry. Discuss the composition, manipulation setting reaction and uses of Alginate impression material (10)

- II. Discuss in detail about composition, polymerization reaction and manipulation of Heat cure resin. (10)

- III. Write short notes on (4x5=20)
 - a. Gypsum Bonded Investment
 - b. Ethical Principles
 - c. Inlay casting wax
 - d. Materials used in Maxillofacial Prosthesis
