



GOVERNMENT OF KERALA
DIRECTORATE OF MEDICAL EDUCATION
DIPLOMA IN DENTAL OPERATING ROOM ASSISTANCE
COURSE REGULAR & SUPPLEMENTARY EXAMINATION APRIL 2024
DORA- F-I-APR-2024

Time: 3hrs.

Max.Marks: 75

PART-I PAPER-I

ANATOMY, PHYSIOLOGY, HISTOLOGY, PATHOLOGY & BACTERIOLOGY

(Answer all questions, Draw diagrams wherever necessary)

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ESSAYS

1. Describe in detail development of tongue, blood supply and nerve supply (5+5+5=15)
2. Write in detail about Sub-mandibular gland under the following headings
(a) Structure and Position b) Relations c) Secretomotor pathway
(d) Applied Anatomy (3+2+5+5=15)
3. Write Short notes (9x5=45)
 - a. Facial artery
 - b. Neoplasm
 - c. Muscle of mastication
 - d. Erosion and attrition of tooth
 - e. Inferior alveolar nerve
 - f. Blood clotting mechanism
 - g. Stenson's duct
 - h. Deglutition
 - i. Maxilla



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DORA- F-II-APR-2024

Time: 3 hrs.

PART-I PAPER-II

Max.Marks:75

BASIC NURSING, FOOD AND NUTRITION

(Answer all questions, Draw diagrams wherever necessary)

ESSAYS

I. Define Temperature. What are the factors affecting Temperature. Describe the management of patient with fever (2+6+7=15)

II. Define carbohydrates. Describe the sources and classification of carbohydrates. Explain the functions of carbohydrates and effects of deficiency. (2+2+3+4+4=15)

III. **SHORT NOTES** (9X5=45)

- a. Cross infection
- b. Ethics of nursing
- c. Bed making
- d. Fat soluble vitamins
- e. Basic life support
- f. Barrier nursing
- g. Vital signs monitoring
- h. Record keeping
- i. Special diet in maxillofacial injury cases

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DORA- F-III-APR-2024

Time: 3 hrs.

PART-I PAPER-III

Max.Marks : 75

**COMPUTER, OFFICE MANAGEMENT, BIOMEDICAL WASTE DISPOSAL &
STERILIZATION**

(Answer all questions Section A & B Separately and draw diagrams wherever necessary)

SECTION – A

I. ESSAY

Enumerate biomedical waste. What are the steps in biomedical waste disposal. Write in detail about incineration (3+5+7=15)

II. Write short notes on : (5x5=25)

- a. HCV
- b. Glutaraldehyde
- c. Use and care of dental hand piece
- d. Daily schedule and appointment management
- e. Autoclave

SECTION B

III. ESSAY

What do you mean by computer hardware? Explain different types of computer hardware and its uses

(5+10=15)

IV. SHORT NOTES (4X5=20)

- a. History and generations of computer
- b. Use of computer in patient management system
- c. Windows
- d. MS office

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PART II -PAPER-I

**ORAL ANATOMY AND PHYSIOLOGY, DISEASES OF TEETH AND GUMS AND
DENTAL MATERIALS**

(Answer all questions, Draw diagrams wherever necessary)

Essays

- I Describe the macroscopic anatomy of Permanent Maxillary First Molar in detail. Add a note on its chronology (13+2=15)
- II Enumerate the difference between primary and permanent dentition (15)
- III Write Short notes on: (9x5=45)
- a. Occlusal aspect of Permanent Mandibular First Molar
 - b. Control of excessive salivation in dentistry
 - c. Muscles of mastication
 - d. Anatomy of maxilla
 - e. Periodontitis
 - f. Difference between permanent maxillary and mandibular canine
 - g. Dental Fluorosis
 - h. Nerve supply of teeth
 - i. Blood coagulation

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**PART-II PAPER-II
OPERATING ROOM TECHNIQUE, CHAIR SIDE ASSISTANCE
& DENTAL LAB ROUTINE**

(Answer all questions .Answer Section-A, B and C-Separately, Draw diagrams wherever necessary)

SECTION –A

ESSAY

- I. Classify gypsum product? Write briefly on alpha hemihydrates? Add a note on storage and disinfection of gypsum? (2+3+3=8)
- II. Classify impression materials? What are elastic impression materials? Write a detailed note on Alginate? (1+2+4=7)
- III. **WRITE SHORT NOTES** (2x5=10)
- Dental waxes
 - Manipulation and Curing cycle for heat cure acrylic resin

SECTION –B

ESSAY

- I. Write in detail about classification, composition and setting reaction of glass ionomer cement. (10)
- II. **Write short notes on:** (3x5=15)
- Role of DORA in the placement of dental composite
 - Factors that alter setting reaction of Zinc Phosphate cement.
 - Setting reaction of Silver Amalgam

SECTION C

1. **Writ short notes on** (5x5=25)
- Chemical sterilization
 - Autoclaving
 - Maintenance of suction machine.
 - Disinfection methods for impressions transported to a dental laboratory
 - Instruments needed for surgical extraction of teeth.

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Time: 3 hrs.

Part-II Paper -III

**MINOR AND MAJOR SURGICAL ASSISTANCE, WITH CONCEPT OF BTLS
RADIOIMAGING, DENTAL ETHICS AND JURISPRUDENCE & ORIENTATION IN
DENTISTRY**

(Answer all questions , Answer Section A, B and C- Separately.
Draw diagrams wherever necessary)

SECTION-A

ESSAY

- I. Explain the characteristics of maxillary fractures. Write in detail about the preparation of a patient with fractured maxilla for open reduction and rigid internal fixation under general anaesthesia. Enumerate the instruments required for the procedure (5+5+5=15)
- II. Dental Emergencies and their management (5+5=10)
- III. **Write short notes on :** (5x5=25)
 - a. Home care after extraction
 - b. Maintenance of Micromotor
 - c. First Aid in fractured mandible
 - d. Armamentarium for inter-maxillary fixation
 - e. Syncope

SECTION -B

- I. What is Consumer Protection Act. What are the features of the Act? Explain the levels of Consumer Protection in India. (2+3+5=10)
- II. Write short note on Nuremberg code (5)

SECTION -C

- I. Write short notes on (2x5=10)
 - a. Developers and fixers in dental radiology
 - b. Interaction of X-Ray with matter

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