



**STEP-I (Basic Science Subjects Examination)**

Papers	Type of Questions	Duration	Total Marks
Paper-I	100 MCQ's	3 hours	100

Each question will carry one mark.

**Subjects**

1. GENERAL ANATOMY
2. PHYSIOLOGY
3. BIOCHEMISTRY
4. DENTAL MATERIAL
5. GENERAL PATHOLOGY
6. COMMUNITY DENTISTRY
7. PHARMACOLOGY
8. ORAL BIOLOGY
9. ORAL PATHOLOGY

**Note:** Total 100 MCQ's (At least 08 from each of above mentioned nine subjects).

Papers	Type of Questions	Duration	Total Marks
Paper-II	100 MCQ's	3 hours	100

Each question will carry one mark.

**Subjects**

1. GENERAL ANATOMY
2. PHYSIOLOGY
3. BIOCHEMISTRY
4. DENTAL MATERIAL
5. GENERAL PATHOLOGY
6. COMMUNITY DENTISTRY
7. PHARMACOLOGY
8. ORAL BIOLOGY
9. ORAL PATHOLOGY

**Note:** Total 100 MCQ's (At least 08 from each of above mentioned nine subjects).

**STEP-II (Clinical Science Subjects - Theory Examination)**

Papers	Type of Questions	Duration	Marks
Paper-I	100 MCQ's	3 hours	100

Each question will carry one mark.

**Subjects**

1. GENERAL SURGERY

2. GENERAL MEDICINE
3. ORAL MEDICINE
4. PERIODONTOLOGY
5. ORAL SURGERY
6. PROSTHETIC
7. CONSERVATIVE DENTISTRY AND ENDODOTICS
8. ORTHODONTICS

**Note:** Total 100 MCQ's (At least 08 from each of above mentioned eight subjects).

**STEP-II (Clinical Science Subjects - Theory Examination)**

Papers	Type of Questions	Duration	Marks
Paper-II	100 MCQ's	3 hours	100

Each question will carry one mark.

**Subjects**

1. GENERAL SURGERY
2. GENERAL MEDICINE
3. ORAL MEDICINE
4. PERIODONTOLOGY
5. ORAL SURGERY
6. PROSTHETIC
7. CONSERVATIVE DENTISTRY AND ENDODOTICS
8. ORTHODONTICS

**Note:** Total 100 MCQ's (At least 08 from each of above mentioned eight subjects).

**TABLE OF SPECIFICATION FOR STEP-I BASIC SCIENCES**  
**SUBJECT DENTAL EXAINATION**

1. **GENERAL ANATOMY**  
General organization and anatomy  
Cervical fascia  
Ant: and post: triangles of neck  
External carotid artery system  
Submandibular gland  
Parotid region  
Facial nerve  
Trigeminal nerve  
Hard and soft palate  
Maxillary sinus
2. **PHYSIOLOGY**  
Cell and genetics  
Blood and coagulation  
Gastrointestinal physiology  
Special sensations  
CVS  
Respiratory Physiology  
Endocrinology

- 3. BIOCHEMISTRY**
  - Enzymes
  - Carbohydrate metabolism
  - Protein metabolism
  - Fat metabolism
  - Vitamins
  
- 4. DENTAL MATERIAL**
  - Properties of dental material
  - Gypsum products.
  - Waxes.
  - Metals and alloys.
  - Casting
  - Ceramics and Porcelain fused to metal
  - Polymers.
  - Impression material
  - Dental Amalgam
  - Resin -based filling material
  - Adhesive restorative material
  - GIC
  
- 5. GENERAL PATHOLOGY**
  
- 6. COMMUNITY DENTISTRY**
  - Dentistry and Community
  - Oral epidemiology
  - Oral Health Education
  - Distribution of oral disease and conditions
  - Preventive dentistry and public health
  
- 7. PHARMACOLOGY**
  - General pharmacology
  - Kinetic and dynamic of drugs
  - Local anesthetics
  - General anesthetics
  - Analgesics and NSAIDS
  - Antibiotics
  - Antidepressants
  - Cancer chemotherapeutics
  
- 8. ORAL BIOLOGY**
  - General embryology
  - Oro facial development
  - Tooth development
  - Enamel
  - dentine
  - Pulp
  - Periodontal and supporting tissues
  - Oral mucosa
  - Temporomandibular
  - Salivary glands
  
- 9. ORAL PATHOLOGY**
  - Developmental disorders of orofacial tissues
  - Dental caries

- Pulp
- Periodontal disease
- Vesiculo bullous disorders
- Keratotic and related disorders
- Odontogenic infections
- Cysts and tumours of jaws
- Non-neoplastic lesions of jaws
- Disease of bone
- Disease of salivary glands
- Disease of TMJ

TABLE OF SPECIFICATION FOR STEP-II CLINICAL SCIENCES SUBJECT  
DENTAL EXAMINATION

**1. GENERAL SURGERY**

- Surgical principles
- Wound Healing
- Complication of wound healing
- Management of burns :  
infections, tetanus and gangrene
- Surgical nutrition
- Fluid and electrolyte management of surgical patients
- Blood transfusion
- Post operative complications
- Managements of trauma

**2. GENERAL MEDICINE**

- Infection disease
- G.I orders
- Cardiovascular disease and hypertension
- Neurological diseases
- Blood and Coagulation
- Hepatobiliary diseases
- Endocrine disorders
- Autoimmune disease
- Pulmonology

**3. ORAL MEDICINE**

- History and examination
- Ulcers and vesiculobulous disorders
- White lesions
- Red lesions
- Orafacial pain and TMJ disorders
- Viral disease
- Candidiasis
- Pre malignant disorders
- Oral cancer
- Complications of cancer managements

**4. PERIODONTOLOGY**

- Periodontal indices

- Etiology and pathogenesis and gingival diseases
- Examination and diagnosis
- Gingival enlargement
- Gum bleeding
- Gingival recession
- Infections
- Peridontal surgery
- splinting
- Antibiotics in periodontal diseases

**5. ORAL SURGERY**

- Basic Surgical principals
- Medically compromised pts in oral surgery
- Medical emergencies
- Exodontia
- Complication of exodontia
- Impacted teeth
- Preprosthetic Surgery
- Surgical endodontics
- Surgical management of cysts
- Odontogenic tumors
- Mandible fracture
- Le forte fractures
- ZMC fractures
- TMJ ankylosis
- Local anesthesia

**6. PROSTHETIC**

- Applied anatomy of oral tissue
- Surgical preparation of mouth for prosthesis
- Complete denture fabrication
- Jaw relation record
- Selection of teeth
- Setting of teeth on articulator
- Relining, rebasing, resilient bases repairs
- Techniques for overcoming difficulties encountered in complete denture
- Cast partial denture and its classification
- Immediate denture
- Over denture and hybrids \complex prosthesis
- Complex prosthesis
- Implant denture
- Crown and bridges

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**7. CONSERVATIVE DENTISTRY AND ENDODOTICS**

- Diagnosis of pulpal disease –pulp vitality
- Pulp space anatomy and access cavities
- Irrigation and intra canal medicaments
- Obturation or root canal filling
- Surgical endodontics
- Restoration of RCT treated teeth
- Endo in children
- Problem in endodontic treatment
- Principal of cavity design and preparation
- Amalgam restoration
- Composite restoration

Natural tooth bleaching  
Veneers  
Indirect restorations (inlays and onlays)  
Self and total etching, generation of DBA

**8. ORTHODONTICS**

Growth and development  
Classification of Malocclusion  
Basic terminology  
Cephaometry  
Space gaining and space maintenance  
Orthodontics appliance:  
Removable appliance  
Fixed appliance  
Mayo function appliance.  
Surgical Orthodontic  
Retention and Relapse  
Treatment in preadolescent  
Treatments of adults  
Diagnosis and treatment planning.

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