

SYLLABUS FOR THE POST OF DENTAL TECHNICIAN

➤ General Human Biology & Disease

(Marks 10)

- Elementary Physics and Chemistry.
- Characteristics of living matter.
- The Structure of living matter.
- The Tissues
- Systems and various parts of human body.
- Development and types of Bones.
- Bones of Head & trunk.
- Bones of the Limb.
- Joints and Articulations
- Structure and Action of muscles
- The Chief Muscles of the Body
- The Blood
- The heart and Blood Vessels
- The Circulatory system
- The Respiratory System
- The Digestive System
- The Liver, Biliary system and Pancreas
- Nutrition and Metabolism
- Endocrine Glands and Exocrine
- The Urinary System
- The Nervous system.
- The Ear.
- The Eye
- The Skin
- The Reproductive System etc.

➤ Dental Anatomy & Physiology Pharmacology, Pathology including Microbiology

✓ General & Dental Anatomy (Marks 10)

- Elementary Knowledge of the jaws and teeth, Important between deciduous and permanent teeth. Chronology of eruption, elementary knowledge of occlusion of teeth. Relationship of teeth with investing tissues, muscles of mastication facial expressions and elementary knowledge of temporary mandibular joints.

➤ General & Dental Physiology and Histology (Marks 10)

- Elementary knowledge of the structure and function of various dental and oral tissues e.g. gingival, periodontal membrane, alveolar process, cementum, enamel, dentine, mucous-membrane, pulp.
- Salivary glands and functions of saliva, mastication.

➤ General and Dental Pharmacology

(Marks 05)

- The Therapeutics drugs commonly used in dentistry and their effects. Practical diagnosis, dispensing of drugs.

✓ **Dental Radiology**

(Marks 05)

- Technical aspect of Dental Radiograph i.e. the taking processing and mounting of Dental Radiographs , Radiation Hazards and protection against radiation.

➤ **General Dentistry including Oral Surgery**

(Marks 30)

General knowledge of various materials used in Dentistry such as impression material, Gypsum products, waxes investing materials and various filling materials temporary and permanent.

✓ **Chairside Assistants**

- Reception of Patient.
- Lay –out of reception room and Dental Surgery and Hygienist Clinic.
- Chairside Assistance and Techniques
- Local anesthesia and equipment.
- Methods of Sterilization and care of Dental Instruments.
- Basic principles in surgery.
- The use of instruments in Dental practice.
- Examination of Oral Cavity and Charting of teeth etc.
- Instructions to patients and recalls.
- Maintenance of Dental Unit / Instrument.

➤ **Prosthodontics with Cosmetology**

(Marks 15)

- Introduction and applied anatomy.
- History taking and Examination.
- Simple surgical preparation, impression taking.
- Selection of patient.
- Phonetics and anatomical articulation.
- Clasp retained partial denture-plan , treatment, design and management.
- Partially edentulous arches.
- Connectors- major and minor and functions.
- Retainers direct and indirect.
- Dentures functions, biomechanics, Survey, diagnosis, planning , partial and temporary relining, resilient lining , aids to retention and relief.
- Cosmetology and appearance.
- Dental Materials and its manipulation.

➤ **Orthodontics**

(Marks 10)

- Etiology, Classification and malocclusion.
- Skeletal maturation, growth, dentition with special reference to endocrines.
- Classification of dentofacial abnormalities , anthropometrics, cephalometrics.

- Examination of patient, differential diagnosis and treatment planning .
- Principle of mechanotherapy
 - Basics about tweed method, twin wire appliance, activators , plates appliances including tissue reaction and evaluation of treatment.

➤ General Hygiene, Nutrition, Community welfare, Conservative & Preventive Dentistry :

✓ **Dental Hygiene and Oral Prophylaxis – (Marks 15)**

- Definition of Hygiene.
- Objective of Dental Hygiene.
- Oral prophylaxis-various methods.
- Stains on teeth-and their management.
- Dental Plaque, Dental calculus.
- Brief description and the role of oral Prophylaxis in Gingivitis, Peritonitis etc.
- ✓ **Clinicals –**
 - Instruments, technique of Oral Prophylaxis.
 - Polishing of teeth.
 - Topical application of fluorides.
 - Care of Oral Cavity and appliances during treatment of Maxillo-facial cases.

➤ Conservative & Preventive Surgery (Marks 10)

- Dental Caries-Prevalence and Prevention.
- Periodontal Diseases, saliva in relation to Dental Health and diseases.
- Dental Health & Diseases.
- Dietary habits and dental Health , Malocclusion , Oral Cancer.