

# RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER

## SYLLABUS FOR SCREENING TEST FOR THE POST OF SENIOR DEMONSTRATOR- DENTISTRY MEDICAL EDUCATION DEPARTMENT

### **Unit-I - Anatomy :**

- Detailed Anatomy & Osteology of Head & Neck.
- Study of cranial nerves – in detail extracranial course 5<sup>th</sup>, 7<sup>th</sup>

### **Unit-II - Biochemistry :**

- Biochemistry applied to Dental Science.
- Basic chemistry & fate of haemoglobin, blood groups, WBC types, number, variations, function, formation, circulation.
- Vitamins.

### **Unit-III - Physiology :**

- Pituitary gland - Hormones, actions & abnormal function.
- Inflammation - Acute & chronic inflammation, repair of wound.
- Hemorrhage, Shock, Syncope.
- Circulatory disturbance & Hypertension.
- Medical emergencies in Dental practice.
- Congenital & rheumatic heart disease.
- Anaemia, coagulation defects, bleeding diseases.
- Allergy, Drug reactions.

### **Unit-IV – Microbiology :**

- Introduction to Bacteriology with special reference to medical & Dental Bacteriology.
- Immunity & immunizing agents.

### **Unit-V - Pharmacology :**

- Cardiovascular Drugs - Vasopressor agents & treatment of shock.
- Drugs acting on blood - anticoagulants, coagulants & hematinic.
- Antiseptics, astringents.
- Antibiotics & Anti-inflammatory.

### **Unit-VI – Prosthodontics :**

- Principles and techniques of impression making in Complete Dentures, RPD & FPD.  
Principle of retention & stability.
- Jaw Relations & methods of registration.
- Processing & finishing of Complete Dentures.
- Immediate complete & partial dentures.
- Components of removable partial denture & their functions.
- Surveyors & mouth preparation.
- Designing of removable partial dentures.
- Acrylic partial denture.
- Principle of tooth reduction.

- Surgical Retractors.
- Selection and fabrication of pontic & retainer.
- Aims & scope of the science of Dental materials.
- Important physical properties applicable to Dental Materials including their biological considerations.

#### **Unit-VII - Conservative Dentistry & Endodontics :**

- Filling materials both adults & children.
- Rationale, care & sterilization of Endodontic instruments.
- Treatment of vital & non vital pulp Surgical treatment in endodontics.
- Bleaching of teeth.

#### **Unit-VIII - Oral Surgery :**

- Local Anaesthetic Drugs
- Uses of Antibiotics in Oral surgery.
- Open and Closed Reduction of Fractures.
- Dental Impaction.
- Dental Implants.
- Impacted teeth & fracture of jaws.
- Oral Surgical Complications & their management.

#### **Unit-IX - Oral Medicine, Radiology & Oral Pathology :**

- Salivary glands and its Diseases.
- Dental Anatomy.
- Developmental disturbances of oral structures.
- Osteomyelitis.
- Dental caries & sequelae.
- Enamel, Dentin, Pulp, Cementum, PDL & bone.
- Bacterial and Fungal Infection.
- AIDS.
- Basics of oral radiology.
- Effects of nutritional disturbances of oral structures.
- Oral Mucous Membrane.
- Infections of oral & para oral structures.
- Cysts & Neoplasms of oral cavity.
- Pre cancerous lesions & etiology, pathology & treatment.
- TMJ diseases & management
- Effects of radiation on oral & para oral structures.
- Oral microbiology.
- Blood dyscrasias & their management.
- Forensic odontology.
- Impacted teeth & fracture of jaws.
- Oral Surgical Complications & their management.

#### **Unit-X - Orthodontics :**

- Normal occlusion & its characteristics.
- Malocclusion - Type, classification & etiology.

**Unit-XI – Pedodontics :**

- Development of Jaws and its growth. Development of teeth and surrounding structures and calcification (including Theories) of hard tissues.
- Eruption and shedding of teeth.
- Age changes in Teeth as surrounding stone structures.
- Psychology - Psychological development from birth to adolescence. Management of child in the dental office.
- Treatment of traumatized Teeth.
- Mouth habits and their management.
- Importance of first permanent molar and splints.

**Unit-XII - Public Health Dentistry :**

- Norms for potability purification of water and disposal of wastes.
- Introduction defination, objectives and functions of public Health dentist.
- School and dental public health programme.
- Ethics in Dental Council of India. Indians Dental Association.

**Unit-XIII - Periodontics :**

- Classification of gingival and Periodontal disturbances.
- Gingival enlargement.
- Local and systemic factors in the causation of gingival and periodontal lesions.
- Periodontitis and sequelae.
- Prognosis and Treatment of all gingival and periodontal. distrubances. Treatment planning, phases and rationale. Different available Therapeutic measures.
- Preventive Periodontics, Concept of focal infections.

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**Pattern of Question Papers:**

1. Objective Type Paper
2. Maximum Marks : 180
3. Number of Questions : 180
4. Duration of Paper : Three Hours
5. All Questions carry equal marks
6. There will be Negative Marking

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