

RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER

SYLLABUS OF COMPETITIVE EXAMINATION FOR THE POST OF ASSISTANT PROFESSOR (Broad Speciality) ORAL AND MAXILLOFACIAL SURGERY MEDICAL EDUCATION DEPARTMENT

A. MEDICAL SUBJECTS: -

- **Anatomy-**

Detailed Anatomy & Osteology of Head & Neck, Arterial Supply & Lymphatic drainage of the head & neck, Study of cranial nerves – in detail extracranial course 5th, 7th, 10th.

- **Physiology-**

Basic chemistry & fate of hemoglobin, blood groups, WBC types, number, variations, function, formation, circulation. Blood- composition, functions, ESR, Hemoglobin, Anemia, blood cells, Blood groups, ECG, Cardiac output, Heart rate, Cardiac cycle, Blood pressure, Blood volume. Biochemistry applied to Dental Science.

- **Pathology-**

Inflammation - Acute & chronic inflammation, repair of wound, Hemorrhage, Shock, Syncope, Circulatory disturbances & Hypertension. Cell biology, Necrosis, Healing, Infectious diseases, Blood disorders.

- **Microbiology-**

Introduction to Bacteriology with special reference to medical & Dental Bacteriology, Immunity & immunizing agents. Allergy, Drug reactions.

- **Medicine-**

Medical emergencies in Dental practice.

Congenital & rheumatic heart disease, Anaemia, coagulation defects, bleeding diseases.

Hepatitis, AIDS, Autonomic nervous system, spinal cords, Physiology of pain, Facial palsy, Neuralgia, Epilepsy, Migraine etc., Hypoxia, Cyanosis, Dyspnoea, Artificial respiration, Infection control, Prevention of cross infection and safe disposal of wastes.

- **Pharmacology-**

Cardiovascular Drugs - Vasopressor agents & treatment of shock, Dosage & mode of administration of drugs, Drugs acting on blood - anticoagulants, coagulants & hematinic, Antiseptics, astringents.

General pharmacology and dental pharmacology, Concept of essential drugs and rational use of drugs.

- **Surgery General-**

General principle of Surgery, Biopsy and other investigations. Concept of recovery room care, airway management, management of cardiovascular instability in this period, criteria for shifting to the ward, Pain management, Wound management, Surgical infection, Airway obstruction/Management, Mouth to Mouth Resuscitation, Endotracheal intubation, Cricothyroidotomy, Tracheostomy, General patient management – Physical assessment of patient of surgery.

B. ORAL AND MAXILLOFACIAL SURGERY SUBJECTS: -

- **Minor oral surgery-**

Principles of surgery, medical emergencies, haemorrhage and shock, exodontia, impaction, surgical aids to eruption of teeth, transplantation of teeth, preprosthetic surgery. Diagnosis and management of trigeminal neuralgia, MPDS, bell's palsy, Frey's, syndrome, nerve injuries, Neurectomy. Dental Implantology.

- **Infection of head and neck-**

management of facial space infections, Ludwig angina, cavernous sinus thrombosis. Osteomyelitis, maxillary sinusitis, oro antral fistula

- **Trauma-**

Primary Care-resuscitation, establishment of airway, management of hemorrhage, management of head injuries and admission to hospital. Soft Tissue Injury. Dento alveolar fractures, mandibular fractures, fracture of zygomatic complex, orbital fractures, nasal fractures, fractures of middle third of the facial skeleton, fracture of maxilla, and treatment of le fort I, II, III. Injury in Geriatric and Pediatric Patient.

- **Salivary gland-**

Salivary fistula and management. Diseases of salivary gland – developmental disturbances, cysts, inflammation and sialolithiasis. Mucocele and Ranula. Tumors of salivary gland and their management. Parotidectomy.

- **Temporomandibular Joint-**

Etiology, history signs, symptoms, examination and diagnosis of temporomandibular joint disorders. Ankylosis and management of the same with different treatment modalities. MPDS and management. Condylectomy- different procedures. Various approaches to TMJ. Recurrent dislocations- Etiology and Management.

- **Oncology-**

Biopsy. Management of pre-malignant tumors of head and neck region. Benign and Malignant tumors of Head and Neck region. Staging of oral cancer and tumor markers. Management of oral cancer. Radical

Neck dissection. Modes of spread of tumors. Diagnosis and management of tumors of nasal, paranasal, nose, tongue, cheek, maxilla and mandible. Reconstruction of Maxillomandibular defects.

- **Orthognathic surgery-**
Model surgery. Maxillary and mandibular repositioning procedures. Segmental osteotomies. Management of apertognathia. Genioplasty. Distraction osteogenesis.
- **Cysts and tumor of oro facial region-**
Odontogenic and non-Odontogenic tumors and their management. Giant Cell lesions of jawbone. Fibro osseous lesions of jawbone. Cysts of jaw.
- **Cleft lip and palate surgery-**
Diagnosis and treatment planning. Current concepts in the management of cleft lip and palate deformity. Knowledge of Naso endoscopy and other diagnostic techniques in the evaluation of speech and hearing. Concept of multidisciplinary team management.
- **Aesthetic facial surgery-**
Diagnosis and treatment planning of deformities and conditions affecting facial skin. Underlying facial muscles, bone, Eyelids, external ear. Surgical management of post acne scarring, facelift, blepharoplasty, otoplasty, facial bone recontouring, etc.
- **Craniofacial surgery-**
Basic concepts in the diagnosis and planning of various head and neck anomalies including facial clefts, craniosynostosis, syndromes, etc. Current concept in the management of Craniofacial anomalies.

Pattern of Question Papers:

1. **Objective Type Paper**
2. **Maximum Marks: 150**
3. **Number of Questions: 150**
4. **Duration of Paper: 2.30 Hours**
5. **All Questions carry equal marks**
6. **There will be Negative Marking**
(For every wrong answer one-third of the marks prescribed for that Particular question shall be deducted.)
