

## Unit 23:

# Neck 3 (deep structures of neck, thyroid & parathyroid glands and cervical segments of trachea & esophagus)

### GENERAL OBJECTIVES:

- general considerations of the organization of deep structures of neck
- structure and function of endocrine glands in the neck
- anatomy of cervical segments of trachea and esophagus

### SPECIFIC OBJECTIVES:

#### **Root of Neck**

Boundaries: *Anterior, Posterior & Inferior* (thoracic inlet)  
Contents: Fascia: *Prevertebral, Pretracheal, Carotid Sheath*  
Muscles: *Prevertebral muscles (anterior and lateral)*  
Viscera:  
    *Trachea*  
    *Oesophagus*  
    *Thyroid Gland: Position, Parts & Key Relations*  
        *Arteries & Veins. Lymphatics & Nerves*  
    *Parathyroid Glands*  
    *Apex of Lung*  
    *Thymus (in early life)*  
Serous Membranes: *Cervical Pleura*  
Arteries: *Common Carotid*  
    *Subclavian (1st. & 2nd. Parts)*  
        Branches: *Vertebral (1st. part)*  
                  *Thyrocervical Trunk & Branches*  
                  *Internal Thoracic & Costocervical Trunk*  
Veins: *Internal Jugular (& Tributaries)*  
    *Subclavian (& Tributaries)*  
    *Inferior Thyroid*  
Lymph Nodes & Lymphatics:  
    *Lower Deep Cervical Nodes*  
    *Thoracic Duct*  
    *Right Lymphatic Duct*  
Nerves: *Vagus & Recurrent Laryngeal Branch*  
    *Phrenic*  
    *Ventral Rami of T:1*  
    *Sympathetic Trunk + Ganglia: Stellate, Middle Cervical*