

## UNIT 4: NERVE TRACINGS

### Motor to *hand (Extensor side)* or *(Flexor side)*

- Motor cortex of cerebrum (frontal lobe)
- Internal capsule
- mesencephalon
- pons
- Medulla oblongata
- Anterior horn
- Ventral root
- Ventral ramus*
- Brachial plexus*
- Radial nerve*                    *Median nerve (or ulnar nerve)*
- Wrist extensor muscles*       *Wrist flexor muscles*

### Motor to *foot (medial/plantar side)* or *(lateral/plantar side)*

- Motor cortex of cerebrum (frontal lobe)
- Internal capsule
- mesencephalon
- pons
- Medulla oblongata
- Anterior horn
- Ventral root
- Ventral ramus*
- Sacral Plexus*
- Sciatic Nerve*
- Tibial Nerve (medial side)* or *Common Fibular (lateral side)*
- Lateral sural nerve*

### Motor to *back* or *front (abdomen)*

- Motor cortex of cerebrum (frontal lobe)
- Internal capsule
- mesencephalon
- pons
- Medulla oblongata
- Anterior horn
- Ventral root
- Dorsal ramus*                    *(Ventral ramus)*
- Thoracic nerve*                *(Thoracic nerve)*
- Appropriate muscle*        *(Appropriate muscle)*

### Sensory from *back* or *(front)*

- Mechanoreceptors*
- thoracic nerves*
- dorsal ramus*                    *Ventral ramus*
- dorsal root ganglion
- dorsal root
- dorsal horn
- Thalamus
- internal capsule
- cerebral cortex in parietal lobe

### Sensory from *arm* or *(leg)* *(could choose other nerves from other areas)*

- Mechanoreceptors*                    *Mechanoreceptors*
- Radial Nerve*                         *Tibial Nerve*
- Brachial plexus*                       *Sciatic Nerve*
- Ventral Ramus*                        *Sacral Plexus*
- Ventral ramus*

- dorsal root ganglion
- dorsal root
- dorsal horn
- Thalamus
- internal capsule
- cerebral cortex in parietal lobe