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## **Nervous Tissue**

### **Contents of nervous system**

- Neuron
- Processes of neuron
- Packing cells
- Epithelial cells

### **Term for packing cells in nervous system**

Nuroglia

### **Term for epithelial cells in nervous system**

Ependymal

### **Nuroglia in nervous system**

Packing cells

### **Ependymal in nervous system**

Epithelial cells

### **Nerve in nervous system**

Elongated bundle of fibres

### **Fasicula in nervous system**

Bundle of nerve fibres

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**Term for bundles of nerves in nervous system**

Fascicula

**Endoneurium in nervous system**

Delicate interconnective tissue surrounding the nerve fibres

**Function of endoneurium in nervous system**

Surround nerve fibres

**Delicate interconnective tissue surrounding the nerve fibers**

Endoneurium

**Perineurium in nervous system**

Tubular sheath of connective tissue surrounding fascicula in nervous system

**Function of perineurium in nervous system**

Surround fascicula

**Tubular sheath of connective tissue surrounding fascicula in nervous system**

Perineurium

**Epineurium in nervous system**

Connective tissue sheath insulating nerve

**Function of epineurium in nervous system**

Insulate nerve

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**Connective tissue surrounding the nerve in nervous system**

Epineurium

**Neuron**

Structural and functional unit of nervous system

**Structural and functional unit of nervous system**

Neuron

**Nature of origin of neuron**

Ectodermal

**Occurrence of cell division in neuron**

Absent

**Cause of absence of cell division in neuron**

Absence of centrioles

**Longest cell in human body**

Neuron

**Maximum length of neuron**

1m

**Number of parts of neuron**

3

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## **Parts of neuron**

- Cyton
- Axon
- Dendrites

## **Cyton**

Cell body of neuron

## **Range of length of cyton**

4 micro meter - 135 micro meter

## **Terms for cyton in nervous tissue**

- Perikaryon
- Soma

## **Contents of cyton in nervous tissue**

- Cytoplasm
- Nucleus
- Cell organells
- Nissl's granules

## **Nissl's granules in nervous system**

RNA rich structures

## **Function of Nissl's granules in nervous system**

Synthesize protein

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### **Matter formed by cyton in nervous system**

Grey matter

### **Location of grey matter in brain in nervous system**

Periphery

### **Location of grey matter in spinal cord in nervous system**

Central

## **Dendrites**

Short branched elongated cytoplasmic processes surrounding cyton

### **Structures absent in dendrites but present in axon in nervous system**

- Myelin sheath
- Terminal ends

### **Approximation of Length of dendrites in nervous system**

Short

### **Branching in dendrites in nervous system**

Branched

### **Quantity of dendrites in nervous system**

Many



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### **Function of dendrites in nervous system**

- Conduct impulse towards cyton

### **Axon**

- Single, long cylindrical cytoplasmic process of neuron

### **Quantity of axon in nervous system**

Single

### **Approximation of Length of axon in nervous system**

Very long

### **Shape of axon in nervous system**

Cylindrical

### **Nature of process of axon in nervous system**

Efferent

### **Structure of origin of axon in nervous system**

Axon hillock

### **Axon hillock in nervous system**

Cone shaped portion of cyton

### **Term for cone shaped portion of cyton**

Axon hillock

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**Axoplasm in nervous system**

Cytoplasm of axon

**Term for cytoplasm of axon in nervous system**

Axoplasm

**Axolemma in nervous system**

Cells membrane of axon

**Term for cell membrane of axon in nervous system**

Axolemma

**Myelin sheath in nervous system**

- White fatty substance covering axon

**Composition of myelin sheath in nervous system**

Fat

**Colour of myelin sheath in nervous system**

White

**Function of myelin sheath in nervous system**

Cover axon

**Times by which the speed of conduction is greater in myelinated axon in nervous system**

20

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## **Schwann cells in nervous system**

Cells secreting myelin sheath

### **Cells secreting myelin sheath in nervous system**

Schwann cells

### **Neurilemma in nervous system**

Outer covering of schwann cells

### **Term for outer covering of Schwann cells in nervous system**

Neurilemma

### **Function of schwann cells in nervous system**

Cover myelin sheath

### **Nodes of Ranvier in nervous system**

Gap between myelin sheath

### **Term for gaps between two segments where no myelin sheath is present in nervous system**

Nodes of Ranvier

## **Telodendria in nervous system**

Terminal part of axon

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**Term for terminal part of axon in nervous system**

Telodendria

**Contents of telodendria in nervous system**

Synaptic knobs

**Functions of neurotransmitters in telodendria in nervous system**

Conduct impulse

**Synapse in nervous system**

Gap between two neurons

**Term for gaps between two neurons**

Synapse

**Synapsis for nervous system**

Process of transmission of impulse from one neuron to another in nervous system

**Term for process of transmission of impulse from one neuron to another in nervous system**

Synapsis

**Direction of flow of impulse in nervous system**

Unidirectional