

# WELCOME TO THE ONLINE CLASS

**SESSION NO.: 2**

**CLASS: 5**

**SUBJECT: SCIENCE**

**CHAPTER NUMBER: 10**

**CHAPTER NAME: OUR NERVOUS SYSTEM**

**SUB TOPIC: THE SPINAL CORD, NERVES, KINDS OF NERVES**

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**CHANGING YOUR TOMORROW**

# LEARNING OBJECTIVE

To enable the learner to:

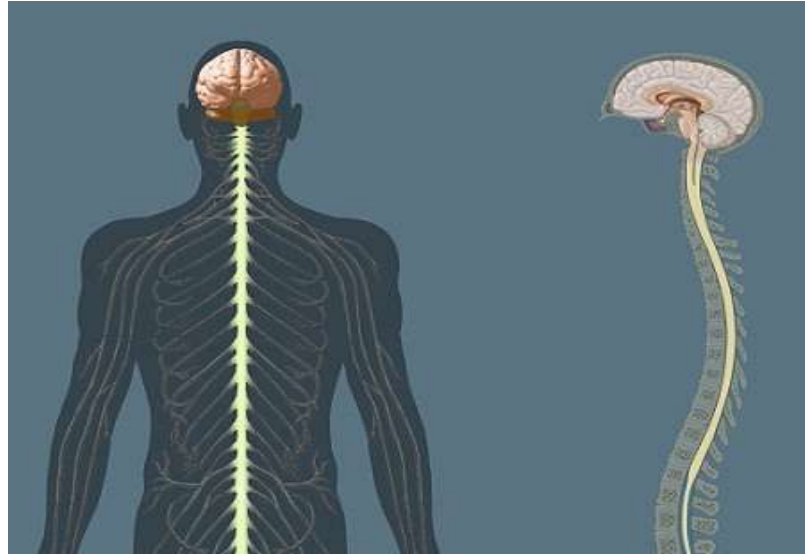
- identify the organs involved in the human nervous system
- know the importance of human nervous system
- learn the functions that our brain performs
- understand what will happen if we lose our nervous system

## LET'S RECAP

- The largest part of the brain.
- The control centre of the body.
- The part of the brain that helps us to balance our body.
- The part of the brain that controls involuntary actions.
- \_\_\_\_\_ controls our voice.

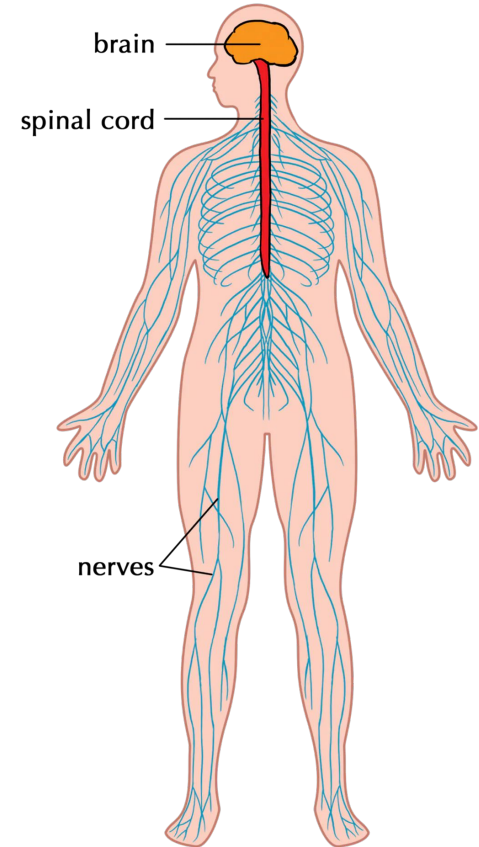
# THE SPINAL CORD

- The spinal cord extends from the base of the brain to almost the lower end of the backbone.
- It is enclosed inside a tough but flexible spine.
- It connects the rest of the body to the brain through the nerves.



# NERVES

- Nerves are long thread like structures that carries messages between the brain and other parts of the body.
- Nerves from the region of the head and the neck join the brain directly.
- However, nerves from the other parts of the body join each side of the spinal cord.
- The spinal cord leads to the brain.
- Nerves are made of bundles of fibres.



# KINDS OF NERVES

- **There are three kinds of nerves:**
  - **Sensory nerves:**

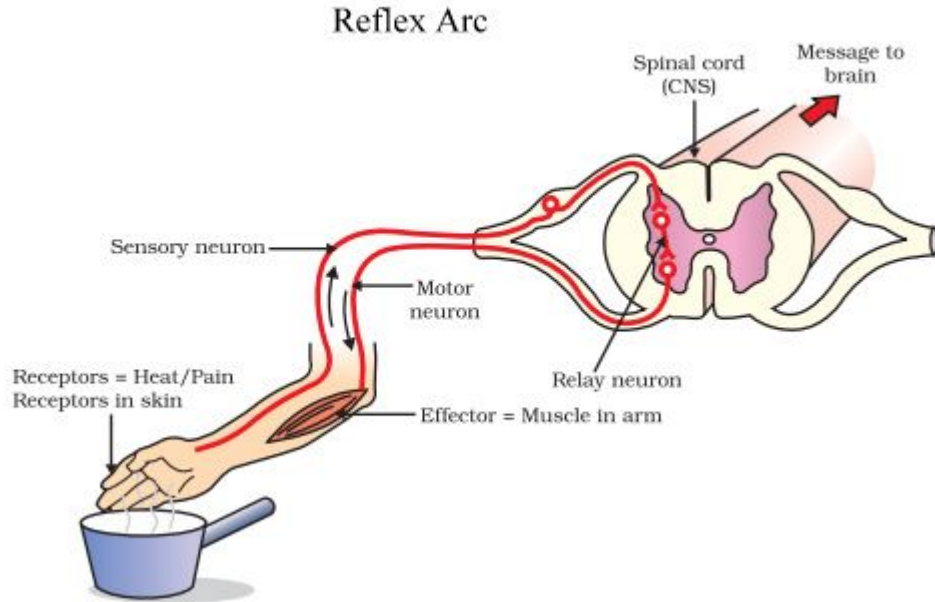
The nerves which bring messages from the sense organs to the brain or the spinal cord are called sensory nerves.
  - **Motor nerves:**

The nerves which carry orders from the brain or the spinal cord to the muscles or glands are called motor nerves.
  - **Mixed nerves:**

The nerves which carry messages to the brain as well as bring order from the brain are called mixed nerves.

# REFLEX ACTIONS

- Reflex action is a sudden and involuntary response to stimuli.
- Reflex actions are controlled by the spinal cord.
- For example, when we accidentally touch hot object, we remove our hand even without thinking.



# SUMMARY

- **Spinal cord connect the rest of the body to the brain through the nerves.**
- **Nerves are long thread-like structures that carries messages between the brain and other parts of the body.**
- **Three different kinds of nerves: sensory nerves, motor nerve and mixed nerve.**
- **Spinal cord controls our reflex actions.**
- **Reflex actions are automatic actions.**



READY FOR A  
**QUIZ** ?

- 1. The nerves which brings messages from the sense organs to the Brain or the spinal cord.**

**Ans: Sensory nerves**

2. \_\_\_\_\_ is enclosed inside a tough,  
Bony but flexible spine.

**Ans: The spinal cord**

### **3. Automatic actions that are controlled by the spinal cord.**

**Ans: Reflex actions**

# HOMWORK

- **Draw a labelled diagram of human brain in your notebook.**

# LEARNING OUTCOME

**The learner will be able to:**

- **identify the organs involved in the human nervous system**
- **know the importance of human nervous system**
- **learn the functions that our brain performs**
- **understand what will happen if we lose our nervous system**

**THANKING YOU**  
**ODM EDUCATIONAL GROUP**