



SUBJECT: BIOLOGY

CHAPTER: 7

CHAPTER NAME: CONTROL AND COORDINATION.

PERIOD-2

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**CHANGING YOUR TOMORROW**

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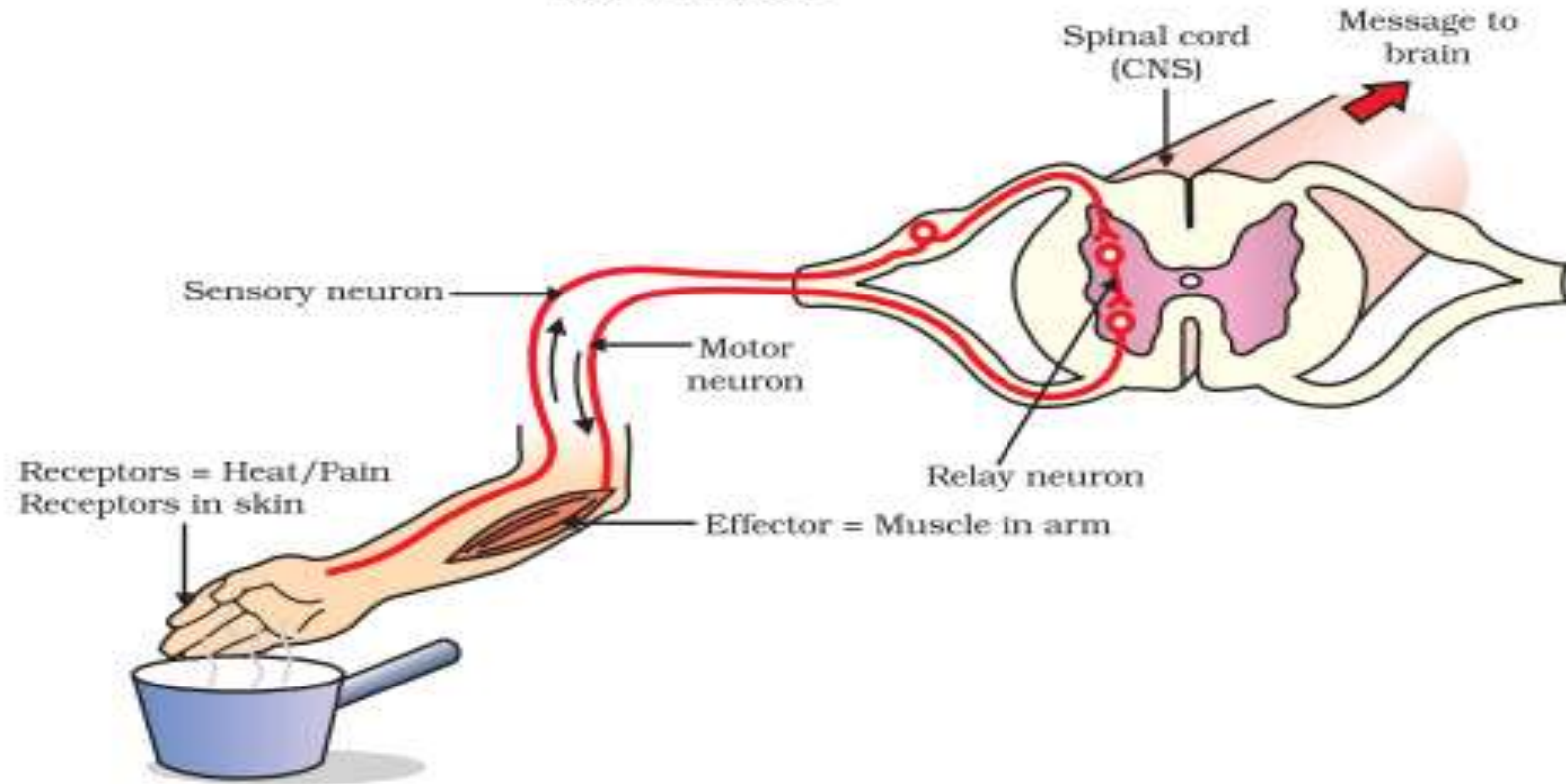
# REFLEX ACTION

- Reflex action is a rapid automatic response to a stimulus which is not under the voluntary control of the brain
- For example; when your hand touches a very hot electric iron, you move away your hand in a jerk. All of this happens in flash and your hand is saved from the imminent injury. This is an example of reflex action.

# Mechanism of reflex action

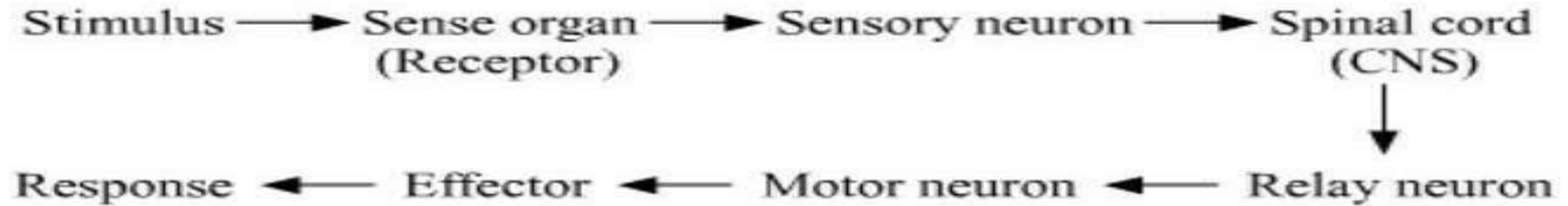
- It involves the following steps
- Receptor
- Sensory neurone
- Spinal cord
- Motor nerve
- Effector organs

# Reflex Arc



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**Reflex arc** is the pathway along which nerve impulse travels during the reflex action. Here is its flow chart.

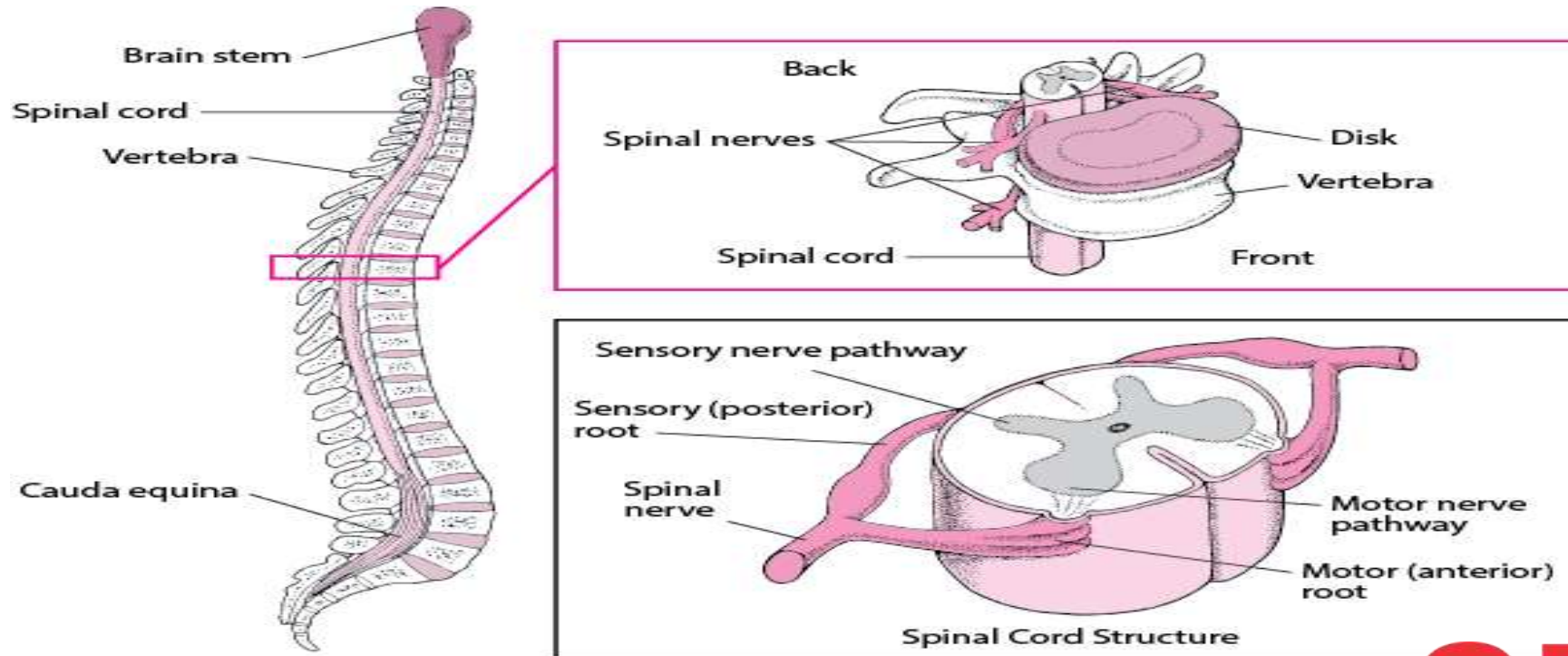


- [https://youtu.be/Qiv8dUp\\_I3c?t=6](https://youtu.be/Qiv8dUp_I3c?t=6)

# Importance of reflex action

- It plays vital role for the survival of the animals
- It relieves the brain from maximum strain
- It protects the animals from harmful situation by immediate responses

# Spinal cord





# HOME ASSIGNMENTS

1. Name the basic components of a reflex arc.

2. What is the role of the brain in reflex action?

3. What do you mean by reflex action? Give examples of reflex actions?

THANKING YOU  
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