

Chapter 7: Nervous System

Worksheet 1

1. Fill in the blanks.

- (i) The message travels along a nerve fibre as _____.
- (ii) _____ nerves have both sensory and motor nerve fibres.
- (iii) The stimulus is received by a _____ .
- (iv) _____ is responsible for body balance.
- (v) _____ protects the spinal cord from injury.

2. Give one difference between the following.

- (i) Sensory nerves and motor nerves
- (ii) Afferent and efferent processes
- (iii) Cerebrum and cerebellum
- (iv) Nervous system and endocrine system
- (v) Cranial nerves and spinal nerves

3. Name the following.

- (i) The two antagonistic systems for nervous control
- (ii) The seat of intelligence in brain
- (iii) Parts of central nervous system
- (iv) The folds and grooves of cerebrum
- (v) The brain stem

4. Give one word for the following.

- (i) The nature of nerve having sensory as well as motor nerve fibres
- (ii) The bony case enclosing brain
- (iii) The nature of spinal nerves
- (iv) An insulating sheath around an axon
- (v) A bundle of nerve fibres wrapped in a sheath of connective tissue

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Worksheet 2

1. Complete the following statements.

- (i) Cranium is called brain case because _____
- (ii) Cerebellum is called little brain because _____
- (iii) Medulla oblongata is called brain stem because _____
- (iv) Parasympathetic nervous system has calming effect on body organs because _____
- (v) Cerebrum is called seat of intelligence because _____

2. Match the following.

Column A

- (i) Optic nerve
- (ii) Chemical message
- (iii) Schwann cells
- (iv) Beating of heart
- (v) Swimming

Column B

- (a) Myelin sheath
- (b) Medulla oblongata
- (c) Cerebellum
- (d) Eye
- (e) Synapse

3. Encircle the correct word.

- (i) The **white/gray** matter forms the peripheral layer of spinal cord.
- (ii) Gyri and sulci are found in **cerebellum/cerebrum**.
- (iii) **Sensory/Motor** nerves carry impulses from brain or spinal cord to muscles or glands.
- (iv) There are **12/31** pairs of cranial nerves and **12/31** pairs of spinal nerves in the body.
- (v) An axon forms the nerve **fibre/nerve**.

4. Draw the following.

- (i) Coiling of myelin sheath around an axon
- (ii) A synapse