CHAPTER 12
Nervous System

Learning Objectives
Upon completion of this chapter, you will be able to

• Identify and define the combining forms and suffixes introduced in this chapter.
• Correctly spell and pronounce medical terms and major anatomical structures relating to the nervous system.
• Locate and describe the major organs of the nervous system and their functions.
• Describe the components of a neuron.
• Distinguish between the central nervous system, peripheral nervous system, and autonomic nervous system.
• Identify and define nervous system anatomical terms.
• Identify and define selected nervous system pathology terms.
• Identify and define selected nervous system diagnostic procedures.
• Identify and define selected nervous system therapeutic procedures.
• Identify and define selected medications relating to the nervous system.
• Define selected abbreviations associated with the nervous system.
### Worksheet 12A

**New Combining Form and Suffix Handout**

Directions: For each combining form below, write out its meaning and then locate a new term from the chapter that uses the combining form or suffix.

<table>
<thead>
<tr>
<th>Combining Forms</th>
<th>Meaning</th>
<th>Chapter Term</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. alges/o</td>
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<tr>
<td>2. astr/o</td>
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<td>3. cephal/o</td>
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<tr>
<td>4. cerebell/o</td>
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<tr>
<td>5. cerebr/o</td>
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<td></td>
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<td>6. clon/o</td>
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<tr>
<td>7. dur/o</td>
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<td></td>
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<td>8. encephal/o</td>
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<td></td>
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<td>9. esthes/o</td>
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<td>10. gli/o</td>
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<td>11. medull/o</td>
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<td>12. mening/o</td>
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<td>13. meningi/o</td>
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<td>14. myel/o</td>
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<td>15. neut/o</td>
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<td>16. poli/o</td>
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<td>17. pont/o</td>
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<td>18. radicul/o</td>
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<td>19. thalam/o</td>
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<td></td>
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<tr>
<td>20. thec/o</td>
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<td></td>
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<tr>
<td>21. ton/o</td>
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<tr>
<td>22. ventricul/o</td>
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<tr>
<td>Suffixes</td>
<td>Meaning</td>
<td>Chapter Term</td>
<td>Meaning</td>
</tr>
<tr>
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<tr>
<td>23. -paresis</td>
<td>_________</td>
<td>__________</td>
<td>__________</td>
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<td>24. -phasia</td>
<td>_________</td>
<td>__________</td>
<td>__________</td>
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<td>25. -plegia</td>
<td>_________</td>
<td>__________</td>
<td>__________</td>
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<tr>
<td>26. -taxia</td>
<td>_________</td>
<td>__________</td>
<td>__________</td>
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<tr>
<td>27. -trophic</td>
<td>_________</td>
<td>__________</td>
<td>__________</td>
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</tbody>
</table>
### Worksheet 12B
### Medical Term Analysis

Directions: Below are terms built from word parts used in this chapter that are not analyzed in the Word Building Table. Many are built from word parts you have learned in previous chapters. Analyze each term presented below and list and define the word parts used to build each term.

<table>
<thead>
<tr>
<th>Medical Term</th>
<th>Word Part Analysis</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. cranial</td>
<td>____________________</td>
</tr>
<tr>
<td>2. neuroglial</td>
<td>____________________</td>
</tr>
<tr>
<td>3. somatic</td>
<td>____________________</td>
</tr>
<tr>
<td>4. anesthesiology</td>
<td>____________________</td>
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<tr>
<td>5. hemiparesis</td>
<td>____________________</td>
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<tr>
<td>6. hemiplegia</td>
<td>____________________</td>
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<tr>
<td>7. neurology</td>
<td>____________________</td>
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<tr>
<td>8. amyotrophic</td>
<td>____________________</td>
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<td>9. meningocele</td>
<td>____________________</td>
</tr>
<tr>
<td>10. myelomeningocele</td>
<td>____________________</td>
</tr>
<tr>
<td>11. poliomyelitis</td>
<td>____________________</td>
</tr>
<tr>
<td>Medical Term</td>
<td>Word Part Analysis</td>
</tr>
<tr>
<td>-------------------</td>
<td>--------------------</td>
</tr>
<tr>
<td>12. myasthenia</td>
<td></td>
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<tr>
<td>13. angiography</td>
<td></td>
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<tr>
<td>14. electroencephalography</td>
<td></td>
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<tr>
<td>15. analgesic</td>
<td></td>
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</tbody>
</table>
Worksheet 12C
Unscramble

Directions: Unscramble each medical term below. A definition for the term is given below each scrambled term.

1. se i p l e y ________________________________________________
   Seizures and loss of consciousness due to uncontrolled neuron electrical activity

2. n u c n u o s i o c s __________________________________________
   Being unaware of surroundings; does not respond to stimuli

3. i n t n v u a l o n a t s ________________________________________
   Medication to control seizures

4. n e i l m o e c g e __________________________________________
   Protrusion of the meninges

5. h g n i l e s ________________________________________________
   Eruption of painful blisters along nerve path

6. r o h e c h p y a s l u d _______________________________________
   Accumulation of cerebrospinal fluid in brain ventricles

7. o l p e y n i u r i s t __________________________________________
   Inflammation of many nerves

8. a r p y s a l s i ______________________________________________
   Temporary or permanent loss of muscle function and movement

9. e h p m i g l i e a ____________________________________________
   Paralysis of half the body

10. h a p i a s a ______________________________________________
    Unable to speak
Worksheet 12D
Sound It Out

Directions: The following are some of the key terms from this chapter written as their phonetic spellings. Sound out each term and write it in the blank. Pronunciations for all terms are included in the glossary at the end of the book and in the audio glossary located on Medical Terminology Interactive.

1. men-in-JYE-tis__________________________________________________________
2. noo-ROH-mah___________________________________________________________
3. ser-ch-BELL-ar__________________________________________________________
4. kon-KUSH-un___________________________________________________________
5. en-seff-ah-LYE-tis_______________________________________________________
6. dee-MEN-she-ah__________________________________________________________
7. an-es-THEE-zee-ah_______________________________________________________
8. dis-FAY-zee-ah___________________________________________________________
9. EN-sch-FAL-ik___________________________________________________________
10. noo-REK-toh-mee_______________________________________________________
11. EP-ih-lep-see___________________________________________________________
12. hem-ee-PLEE-je-ah_______________________________________________________
13. high-droh-SEFF-ah-lus__________________________________________________
14. meh-NIN-jee-all_________________________________________________________
15. tha-LAM-ik____________________________________________________________
16. MY-grain_______________________________________________________________
17. noo-rol-oh-jee_________________________________________________________
18. my-ch-LOG-rah-fey______________________________________________________
19. noo-RAL-jee-ah________________________________________________________
20. NOOR-oh-plas-tee_______________________________________________________
21. pah-RAL-ih-sis__________________________________________________________
22. my-ch-LYE-tis__________________________________________________________
23. SEE-zyoor_____________________________________________________________
24. SER-ch-broh-VASS-kyoo-lar_____________________________________________
25. SIN-koh-pee___________________________________________________________
Worksheet 12E
Word Search Puzzle

Directions: Find and circle the answer for each fill-in-the-blank question in the word search puzzle.

W D M N T F N E C D Z M P V
K L H T F M P R E S T B L D
S K B H P O Q M B R G C H L
I S N H C A E B N E M G W T
S L I N K N L O F M H P M H
Y R Y S T K I S N I R N M G
L S Q I O S H H Y E F Y T N
A Z A J U R R C K H N J M K
R Z B T K L E R X Z J C Z K
A N N T L Z L L J L N O N L
P O T F L N W P C A G M J L
C G Z Q R G K W K S M A H L
A N T I C O N V U L S A N T
S U L A H P E C O R D Y H R

1. _______________ disease is a chronic condition with progressive disorientation and loss of memory.

2. _______________ medication reduces excitability of neurons to prevent uncontrolled neuron activity.

3. Cerebral _______________ is the bruising of the brain from impact, with symptoms lasting longer than 24 hours.

4. Cerebral _______________ is brain damage resulting from defect in fetal development or oxygen deprivation at time of birth.

5. The state of profound unconsciousness is called _______________.

6. Progressive impairment of intellectual function interfering with performing daily activities is called _______________.

7. _______________ results from the buildup of cerebrospinal fluid.

8. Multiple _______________ is an autoimmune disease affecting the central nervous system.

9. _______________ is the loss of muscle function and movement.

10. The medical term for fainting is _______________.
Worksheet 12F
Crossword Puzzle

Directions: Use the definitions given to complete the crossword puzzle.

ACROSS
2 Cerebral ______, bruising of the brain
3 Term meaning paralysis of four (limbs)
5 ______ nerves carry information to CNS
8 Muscle weakness in one limb
9 Coordinates body movement and maintains balance
10 Point where one neuron meets another
11 Brain and spinal cord form the ______ nervous system

DOWN
1 Medication that reduces neuron excitability
4 Protective covering around brain and spinal cord
6 Term meaning without speech
7 Largest part brain
Crossword Puzzle

Directions: Use the definitions given to complete the crossword puzzle.

ACROSS
1 buildup of cerebrospinal fluid within brain
3 headache with severe pain, dizziness, and nausea
5 fainting
7 progressive impairment of intellectual function
11 a PET scan uses ______ radionuclides
12 condition with painful blisters along nerve path
13 myasthenia gravis happens because of insufficient ______

DOWN
2 the temporary or permanent loss of muscle function
4 profound unconsciousness
6 seizures caused by uncontrolled neuron electrical activity
8 in multiple sclerosis, the immune system destroys ______
9 petit mal is also called a(n) ______ seizure
10 common name for cerebrovascular accident
Worksheet 12G
Chapter Review

Anatomy and Physiology

1. The central nervous system consists of the _____________________ and _____________________.
2. _____________________ are highly branched structures found on neurons that receive impulses.
3. _____________________ is a fatty substance that acts as insulation for many axons.
4. List the meninges in order from outer layer to inner layer: _____________________.
5. The _____________________ lobe of the cerebrum controls vision.
6. The elevated portions of the cerebral convolutions are called _____________________ and they are separated by fissures called _____________________.
7. The midbrain, pons, and medulla oblongata make up the _____________________.
8. Pain perception is controlled by the _____________________.
9. The point at which a nerve is attached to the central nervous system is called the _____________________.
10. The _____________________ branch of the ANS is the “fight-or-flight” branch and the _____________________ branch of the ANS is the “rest-and-digest” branch.

Word Building

Directions: Build a term that means:

1. brain inflammation _________________________________________________________________
2. head pain ________________________________________________________________________
3. pertaining to the cerebrum and spine ___________________________________________________
4. meninges tumor _____________________
5. surgical repair of nerve _____________________________________________________________
6. absence of pain ________________________________________________________________
7. difficult speech _________________________________________________________________
8. paralysis of four ________________________________________________________________
9. lack of muscle coordination ______________________________________________________
10. removal of a nerve _______________________________________________________________
Matching

_____ 1. absence seizure
_____ 2. aura
_____ 3. coma
_____ 4. delirium
_____ 5. focal seizure
_____ 6. dementia
_____ 7. paresthesia
_____ 8. syncope
_____ 9. tremor
_____10. unconscious
_____11. astrocytoma
_____12. cerebral aneurysm
_____13. cerebral contusion
_____14. CVA
_____15. Reye syndrome
_____16. epilepsy
_____17. ALS
_____18. spina bifida
_____19. MS
_____20. myasthenia gravis
_____21. brain scan
_____22. lumbar puncture
_____23. laminectomy
_____24. anticonvulsant
_____25. hypnotic

a. Uncontrolled electrical activity of the brain
b. Confusion, disorientation, agitation
c. Procedure removes pressure on spinal nerve
d. Repetitive, alternating movements
e. Controls seizures
f. Unaware of surroundings
g. Insufficient neurotransmitter
h. Petit mal
i. Associated with children taking aspirin
j. Bruising of the brain
k. A stroke
l. Profound unconsciousness
m. Progressive spinal cord degeneration
n. Fainting
o. Impaired intellectual functioning
p. Nerves lose myelin sheath
q. Brain image made using radioactive isotopes
r. Unusual sensation before a seizure
s. Spinal tap
t. Burning or tingling sensations
u. Promotes sleep
v. May cause a hemorrhagic stroke
w. Affects only one limb
x. Congenital defect
y. Tumor of a neuroglial cell
Quiz 12A
New Word Parts Quiz

Directions: Define the combining form or suffix in the spaces provided.

1. cephal/o
2. cerebell/o
3. cerebr/o
4. encephal/o
5. gli/o
6. mening/o
7. myel/o
8. neur/o
9. astr/o
10. poli/o
11. pont/o
12. radicul/o
13. thalam/o
14. ventricul/o
15. medull/o
16. esthes/o
17. -paresis
18. -plegia
19. -taxia
20. alges/o
21. ton/o
22. dur/o
23. clon/o
24. -trophic
Quiz 12B

Spelling Quiz

Directions: Write each term as your instructor pronounces it.

1. _____________________________________________
2. _____________________________________________
3. _____________________________________________
4. _____________________________________________
5. _____________________________________________
6. _____________________________________________
7. _____________________________________________
8. _____________________________________________
9. _____________________________________________
10. ____________________________________________
11. ____________________________________________
12. ____________________________________________
13. ____________________________________________
14. ____________________________________________
15. ____________________________________________
16. ____________________________________________
17. ____________________________________________
18. ____________________________________________
19. ____________________________________________
20. ____________________________________________
Quiz 12C
Labeling Diagram

Directions: Label the components of a neuron.

1. ________________
2. ________________
3. ________________
4. ________________
5. ________________
6. ________________
7. ________________
Quiz 12D
Labeling Diagram

Directions: Label the parts of the brain.

1. ______________________
2. ______________________
3. ______________________
4. ______________________
5. ______________________
6. ______________________
7. ______________________
8. ______________________
9. ______________________
Quiz 12E
Word Building Quiz

Directions: Build a single medical term for each phrase below.

1. head pain ________________________________________________________________________
2. pertaining to the cerebellum __________________________________________________________
3. pertaining to the cerebrum ___________________________________________________________
4. record of brain’s electricity __________________________________________________________
5. pertaining to meninges ______________________________________________________________
6. pertaining to nerve _________________________________________________________________
7. inflammation of many nerves _________________________________________________________
8. pertaining to the pons _______________________________________________________________
9. nerve root disease __________________________________________________________________
10. pertaining to the thalamus ____________________________________________________________
11. pertaining to within the meninges ____________________________________________________
12. excessive sensations __________________________________________________________________
13. weakness of one ____________________________________________________________________
14. lack of speech ______________________________________________________________________
15. lack of muscle coordination _________________________________________________________
16. nerve tumor ________________________________________________________________________
17. pertaining to cerebrum and spine ______________________________________________________
18. half weakness ______________________________________________________________________
19. pertaining to nerve glue ______________________________________________________________
20. surgical repair of a nerve _____________________________________________________________
Quiz 12F
Abbreviations Quiz

Directions: Write the medical term for which each abbreviation stands.

1. ALS ____________________________________________________________
2. ANS ___________________________________________________________
3. CNS ____________________________________________________________
4. CP _____________________________________________________________
5. CSF _____________________________________________________________
6. CVA ____________________________________________________________
7. CVD _____________________________________________________________
8. EEG ____________________________________________________________
9. HA _____________________________________________________________
10. ICP _____________________________________________________________
11. LP _____________________________________________________________
12. MS _____________________________________________________________
13. PET _____________________________________________________________
14. PNS _____________________________________________________________
15. SCI _____________________________________________________________
16. TIA _____________________________________________________________
Quiz 12G
Chapter Review

PART I: Multiple Choice
Directions: Circle the correct answer.

1. The innermost layer of the meninges is the
   a. arachnoid layer.
   b. dura mater.
   c. pia mater.
   d. pons.

2. Afferent neurons
   a. carry impulses to the brain and spinal cord.
   b. carry impulses away from the brain and spinal cord.
   c. carry impulses to the brain but away from the spinal cord.
   d. carry impulses to the spinal cord but away from the brain.

3. The condition in which there is degeneration of the motor neurons of the spinal cord (Lou Gehrig’s disease) is known as
   a. myasthenia gravis.
   b. multiple sclerosis.
   c. amyotrophic lateral sclerosis.
   d. Reye syndrome.

4. One-sided facial paralysis with an unknown cause is known as
   a. Reye syndrome.
   b. Lou Gehrig’s disease.
   c. Parkinson’s disease.
   d. Bell’s palsy.

5. A profound state of unconsciousness resulting from an illness or injury is a
   a. concussion.
   b. sleep disorder.
   c. coma.
   d. seizure.

6. The diagnostic term that means the process of X-ray filming the blood vessels of the brain is
   a. cerebral angiogram.
   b. ventriculogram.
   c. myelography.
   d. cerebral angiography.

7. The form of epilepsy in which there is a loss of awareness without muscle convulsions is
   a. absence seizure.
   b. palsy seizure.
   c. focal seizure.
   d. tonic-clonic seizure.

8. The medical term for fainting is
   a. palsy.
   b. syncope.
   c. dementia.
   d. delirium.

9. The condition characterized by nonprogressive paralysis from a defect or trauma at birth is
   a. autism.
   b. epilepsy.
   c. cerebral palsy.
   d. dementia.

10. The term for a disease affecting children and adolescents, typically following a viral infection, is
    a. Babinski’s syndrome.
    b. cerebral palsy.
    c. multiple sclerosis.
    d. Reye syndrome.
PART II: Matching

Directions: Match the term with its definition.

_____ 1. cerebrospinal fluid shunt
_____ 2. nerve block
_____ 3. nerve conduction velocity
_____ 4. subdural hematoma
_____ 5. shingles
_____ 6. Alzheimer’s disease
_____ 7. conscious
_____ 8. axon
_____ 9. cerebellum
_____ 10. narcotic analgesic

a. Can pinpoint nerve damage
b. Progressive dementia
c. Conducts electrical impulse on nerve
d. Injection of regional anesthetic to stop pain
e. Awake and aware of surroundings
f. Coordinates voluntary body movements
g. Painful blisters along nerve path
h. Blood accumulating in meninges
i. Treats severe pain
j. Treats hydrocephalus

PART III: Abbreviations

Directions: Write the full meaning of the following abbreviations.

1. ANS ____________________________
2. CP _____________________________
3. SCI _____________________________
4. CVA ____________________________
5. MS _____________________________
Chapter 12 Answer Keys

Worksheet 12A Answer Key
Combining Forms
1. sense of pain
2. star
3. head
4. cerebellum
5. cerebrum
6. rapid contracting and relaxing
7. dura mater
8. brain
9. sensation, feeling
10. glue
11. medulla oblongata

Suffixes
23. weakness
24. speech
25. paralysis

Worksheet 12B Answer Key
1. crani/o = skull; -al = pertaining to
2. neur/o = nerve; gli/o = glue; -al = pertaining to
3. somat/o = body; -ic = pertaining to
4. an- = lack of; esthesi/o = sensation; -logy = study of
5. hemi- = half; -paresis = weakness
6. hemi- = half; -plegia = paralysis
7. neur/o = nerve; -logy = study of
8. a- = lack of; my/o = muscle; -trophic = development
9. mening/o = meninges; -cele = protrusion
10. myel/o = spinal cord; mening/o = meninges; -cele = protrusion
11. poli/o = gray matter; myel/o = spinal cord; -itis = inflammation
12. my/o = muscle; -asthenia = weakness
13. angi/o = vessel; -graphy = process of recording
14. electr/o = electricity; encephal/o = brain; -graphy = process of recording
15. an- = lack of; -algesic = pain

Worksheet 12C Key
1. epilepsy
2. unconscious
3. anticonvulsant
4. meningocele
5. shingles
6. hydrocephalus
7. polyneuritis
8. paralysis
9. hemiplegia
10. aphasia
Worksheet 12D Key
1. meningitis 14. meningeal
2. neuroma 15. thalamic
3. cerebellar 16. migraine
4. concussion 17. neurology
5. encephalitis 18. myelography
6. dementia 19. neuralgia
7. anesthesia 20. neuroplasty
8. dysphasia 21. paralysis
9. encephalic 22. myelitis
10. neurectomy 23. seizure
11. epilepsy 24. cerebrovascular
12. hemiplegia 25. syncope
13. hydrocephalus

Worksheet 12E Key
1. Alzheimer’s 6. dementia
2. anticonvulsant 7. hydrocephalus
3. contusion 8. sclerosis
4. palsy 9. paralysis
5. coma 10. syncope
Worksheet 12F Key

Solution:

CONTUSION

QUADRIPEgia

M E A C N

MONOPARESIS

I H R U

NA CEREBELLM

G S B S

E I R SYNAPE

S A U N

M CENTRAL

H Y D R O CEPHALUS

MIGRAINE

A L C

SYNCOPE

S M P

DEMENTIA

Y S L E

SHINGLES

NEUROTRANSMITTER
Worksheet 12G Answer Key

Anatomy and Physiology

1. brain; spinal cord 6. gyri; sulci
2. dendrites 7. brain stem
3. myelin 8. thalamus
4. dura mater, arachnoid layer, pia mater 9. nerve root
5. occipital 10. sympathetic; parasympathetic

Word Building

1. encephalitis 6. analgesia
2. cephalalgia 7. dysphasia
3. cerebrospinal 8. quadriplegia
4. meningioma 9. ataxia
5. neuroplasty 10. neurectomy

Matching

1. h 14. k
2. r 15. i
3. l 16. a
4. b 17. m
5. w 18. x
6. o 19. p
7. t 20. g
8. n 21. q
9. d 22. s
10. f 23. c
11. y 24. e
12. v 25. u
13. j

Quiz 12A Answer Key

1. head 13. thalamus
2. cerebellum 14. ventricle
3. cerebrum 15. medulla oblongata
4. brain 16. feeling, sensation
5. glue 17. weakness
6. meninges 18. paralysis
7. spinal cord 19. muscle coordination
8. nerve 20. pain, sensitivity
9. star 21. tone
10. gray matter 22. dura mater
11. pons 23. rapid contracting and relaxing
12. nerve root 24. pertaining to development
Quiz 12B Answer Key
1. neurotransmitter
2. synapse
3. neuroglial
4. meninges
5. diencephalon
6. arachnoid
7. parasympathetic
8. anesthesiology
9. radiculopathy
10. hydrocephalus
11. paresthesia
12. syncope
13. unconscious
14. Alzheimer’s
15. cerebrovascular
16. amyotrophic
17. meningeal
18. myelomeningocele
19. echoencephalography
20. endarterectomy

Quiz 12C Answer Key
1. dendrites
2. nerve cell body
3. unmyelinated region
4. myelinated axon
5. nucleus
6. axon
7. terminal end fibers

Quiz 12D Answer Key
1. cerebrum
2. diencephalon
3. thalamus
4. hypothalamus
5. brain stem
6. midbrain
7. cerebellum
8. pons
9. medulla oblongata

Quiz 12E Answer Key
1. cephalalgia
2. cerebellar
3. cerebral
4. electroencephalogram
5. meningeal
6. neural
7. polyneuritis
8. pontine
9. radiculopathy
10. thalamic
11. intrathecal
12. hyperesthesia
13. monoparesis
14. aphasia
15. ataxia
16. neuroma
17. cerebrospinal
18. hemiplegia
19. neuroglial
20. neuroplasty

Quiz 12F Answer Key
1. amyotrophic lateral sclerosis
2. autonomic nervous system
3. central nervous system
4. cerebral palsy
5. cerebrospinal fluid
6. cerebrovascular accident
7. cerebrovascular disease
8. electroencephalography
9. headache
10. intracranial pressure
11. lumbar puncture
12. multiple sclerosis
13. positron emission tomography
14. peripheral nervous system
15. spinal cord injury
16. transient ischemic attack
Quiz 12G Answer Key

Multiple Choice

1. c
2. a
3. c
4. d
5. c
6. d
7. a
8. b
9. c
10. d

Matching

1. j
2. d
3. a
4. h
5. g
6. b
7. e
8. c
9. f
10. i

Abbreviations

1. autonomic nervous system
2. cerebral palsy
3. spinal cord injury
4. cerebrovascular accident
5. multiple sclerosis