1. What structure separates each vertebra while cushioning and absorbing pressure placed on the spine?
   a. Cerebral spinal fluid  
b. Ligaments  
c. Intervertebral disks  
d. Bone marrow

2. A cross sectional view of the spinal cord shows the center of the cord is composed of gray matter that resembles what letter or shape?
   a. The letter G  
b. A cross  
c. The letter I  
d. A butterfly

3. The activation of the sympathetic nervous system does all of the following EXCEPT:
   a. Elevates blood pressure  
b. Increases heart rate  
c. Increases digestion activity  
d. Diverts blood to the muscles

4. The activation of the parasympathetic nervous system does which one of the following:
   a. Relaxes the bladder  
b. Shunts blood to the heart  
c. Dilates pupils  
d. Slows heart rate

5. Hyperextension injuries are most often seen in which population?
   a. Infants  
b. Adolescents  
c. School-age children  
d. Elderly

6. The injuries most often associated with head-on collisions are:
   a. Hyperextension  
b. Hyperflexion  
c. Compression  
d. Rotation

7. Which one of the following does not describe a classification of spinal cord injury?
   a. Mechanism of injury  
b. Clinical syndrome of degree  
c. Neurological level affected  
d. Traumatic level of impact

8. Tetraplegia is defined as a loss of muscle strength in all four extremities, trunk and abdominal area and results from injury to which region of the spinal cord?
   a. Thoracic  
b. Cervical  
c. Lumbar  
d. Sacral

9. Which spinal cord syndrome presents with loss of motor function, pain and temperature sensation below the level of injury?
   a. Posterior cord syndrome  
b. Brown-Sequard syndrome  
c. Anterior cord syndrome  
d. Central cord syndrome

10. Motor loss greater in the upper extremities with variable sensory loss and bladder dysfunction describes which of the following:
    a. Brown-Sequard syndrome  
b. Posterior cord syndrome  
c. Cauda equina syndrome  
d. Central cord syndrome

11. The following are not part of the triad of neurogenic shock EXCEPT:
    a. Bradycardia  
b. Hypotension  
c. Hypothermia  
d. Hypocapnia

12. Return of which one of the following signals the resolution of spinal shock?
    a. Bulbocavemous reflex  
b. Sweating  
c. Spontaneous breathing  
d. Flaccidity

13. In a patient with a spinal cord injury, hypotension is defined as which of the following?
    a. Systolic blood pressure less than 90 mmHg  
b. Mean arterial pressure less than 70 mmHg  
c. Mean arterial pressure less than 60 mmHg  
d. Systolic blood pressure less than 100 mmHg

14. Injuries to the lower levels of the spinal cord in which hypotension is caused by peripheral vasodilation, which vasopressor would be the best choice in treatment?
    a. Neosynephrine  
b. Dopamine  
c. Noradrenaline  
d. Vasopressin

15. Which nerve carries parasympathetic fibers to the descending colon and rectum from sacral levels S2-S4?
    a. Pelvic nerve  
b. Mesenteric nerve  
c. Vagus nerve  
d. Sciatic nerve

16. Which two plexuses are part of the intrinsic nervous system and are responsible for colonic motility?
    a. Meissner and brachial  
b. Auerbach and lumbo-sacral  
c. Meissner and Auerbach  
d. Auerbach and brachial

17. The brain sends signals to the bladder through which part of the brainstem?
    a. Medulla oblongata  
b. Pons  
c. Midbrain  
d. Occipital

18. Each of the following is a symptom of autonomic dysreflexia EXCEPT:
    a. High blood pressure  
b. Sweating  
c. Tachycardia  
d. Difficulty breathing

20. Pressure ulcers most commonly occur in which one of the following areas?
    a. Cervical spine  
b. Heels  
c. Femur  
d. Coccyx

**Spinal Cord Injury**

**Earn 2 Contact Hours NOW!**

**Registration/Answer Form #447**

**LEARNER FEEDBACK**

**QUESTIONS**

1. A B C D E
   1. A B C D E
   2. A B C D E
   3. A B C D E
   4. A B C D E
   5. A B C D E

**EVALUATION**

1. I can discuss spinal cord anatomy.  
   a. strongly agree  
b. agree  
c. neutral  
d. disagree  
e. strongly disagree

2. I can state the classification systems used to diagnose and treat spinal cord injury.  
   a. strongly agree  
b. agree  
c. neutral  
d. disagree  
e. strongly disagree

3. I can describe the mechanisms involved in secondary injury after spinal cord trauma and how nurses can focus care to limit secondary changes and improve functional outcomes.  
   a. strongly agree  
b. agree  
c. neutral  
d. disagree  
e. strongly disagree

4. I can explain a systematic approach to the nursing management of spinal cord injury patients.  
   a. strongly agree  
b. agree  
c. neutral  
d. disagree  
e. strongly disagree

5. The objectives relate to the overall goal of the article.  
   a. strongly agree  
b. agree  
c. neutral  
d. disagree  
e. strongly disagree

6. The article is well-written and logically organized, and defines terms adequately.  
   a. strongly agree  
b. agree  
c. neutral  
d. disagree  
e. strongly disagree

7. How many minutes did you need to complete this CE offering?  
   a. strongly agree  
b. agree  
c. neutral  
d. disagree  
e. strongly disagree

8. Please offer any comments or suggestions for more CE.  
   a. strongly agree  
b. agree  
c. neutral  
d. disagree  
e. strongly disagree

**Keep ADVANCE Coming!**

This may be only a trial copy or it may be time to renew. You won’t continue to receive ADVANCE for Nurses unless you contact us for your FREE subscription.

- **YES!** I am a Nurse, sign me up!
- I prefer to receive a PRINT SUBSCRIPTION.
- I prefer to receive the DIGITAL EDITION. (e-mail address required below)
- I prefer to receive BOTH a print and digital edition. (e-mail address required below)

Date:  Signature (required):  
E-mail:  

**JOB TITLE**

- Director of Nursing  
- Manager/Supervisor  
- Nursing Administrator  
- Nursing Faculty  
- Private Practice  
- Staff Development  
- Staff Nurse  
- Program Director  

**PRACTICE SETTING**

- Ambulatory  
- Cardiac  
- Cardiac Management  
- Chemical Dependency  
- Clinical Specialist  
- Critical Care  
- Dermatology  
- Dialysis  
- Education  
- ED/ER  
- Geriatrics/LTC  
- Gynecology  
- Home Health  
- Hospice  
- ICU  
- Infection Control  
- IV Therapy  
- Managed Care  
- Managerial  
- Mental/Child  
- Med Surg  
- MRI/CT  
- Nursing/Non-Senior (Digital Only)  
- Nursing School  
- Obstetrics  
- Orthopedics  
- Pediatrics  
- Psychiatric  
- Public Health  
- Rehab  
- Research  
- Sales/Marketing  
- School Nurse  
- Student  
- Substance Abuse  
- Support Staffing  
- Travel Nursing  
- URO/GI  

**PAYMENT**

Make check (any checks returned for non-sufficient funds will be assessed a $25 service fee) or money order payable to Merion Publications Learning Scope, 2900 Horizon Dr., King of Prussia, PA 19406, or pay by credit card:

Name of Cardholder:  
Credit Card No.:  
Exp Date:  

**CUSTOMER INFORMATION**

For accuracy, please print clearly. (NW)

Name:  
Street Address:  
City:  State:  Zip:  
Daytime Phone:  
E-mail Address:  
License No. (FL required):  

**PAYMENT $15**

Copyright © 2015 Merion Publications. All rights reserved.

This offering expires in 2 years:  
AUGUST 19, 2015

**KeepADVANCEComing.com**

Digital Editions: (e-mail address required below)  
- Print Edition: (e-mail address required below)  
- Both: (e-mail address required below)