

## Small Animal Practical Sample Questions

### Question #1

Preoperative and postoperative radiographs of the spine of a dog that had been hit by a car.

A. List the individual radiographic abnormalities present on the **preoperative** radiograph.  
**Be specific.** (8 points)

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B. What type of injury is this? **Pick one.** (2 points)  
Hyperextensional or Hyperflexional

C. What is the name of the implant that is attached to the dorsal spines of the vertebrae? (2 points)

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**Question #2**

Ventrodorsal and lateral projections of a myelogram of a 12-year-old Boston terrier with paraparesis (caudal paresis).

A. Describe the radiographic/myelographic abnormalities. (3 points)

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B. Describe the location of the lesion with respect to the meninges. (3 points)

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C. List the **two** most likely diagnoses. (4 points)

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D. List the most likely cause of these radiographic abnormalities in cats. (2 points)

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**Question #3**

Mediolateral radiographic view of a stifle.

A. What species is represented? (4 points)

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B. What is the most likely diagnosis? (4 points)

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C. What surgical treatment is indicated and what is the prognosis following this treatment? (4 points)

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## Answers

### Question 1-A

- Subluxation of the facet joints (2 points)
- Subluxation of the disc joint (2 points)
- Fracture of the dorsal portion of the vertebral end plate (2 points)
- Fracture of the ventral portion of the vertebral end plate (1 point)
- Fractures of the dorsal spines (1 point)

### Question 1-B

- Hyperflexional

### Question 1-C

- Lubra plate

### Question 2-A

- thinning/loss of the dorsal contrast column (1 point)
- deviation of the right lateral contrast column (1 point)
- deviation/distortion of the ventral contrast column (golf tee or cup sign) (1 point)

### Question 2-B

- intradural/extramedullary (2 points)
- with an extradural component (1 point)

### Question 2-C

- neurofibroma/neurilemmoma/Schwannoma/etc. (2 points)
- meningioma (2 points)

### Question 2-D

- lymphosarcoma/lymphoma

### Question 3-A

- Cat, feline

### Question 3-B

- Osteosarcoma

### Question 3-C

- Amputation, long term survival (good-excellent prognosis)