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)
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)