

In-Training Examination (ITE) Sample Items

1. An 83-year-old, 70-kg man received anesthesia for an exploratory laparotomy and small bowel resection with minimal blood loss. Postoperatively, he is hemodynamically stable but his urine output has decreased to 15 mL/hr and his urine sodium is 16 mEq/L. Which of the following intravenous interventions is the **MOST** appropriate?

- A. Lactated Ringer's solution 20 mL/kg
- B. Dopamine 5 mcg/kg/min
- C. Furosemide 0.5 mg/kg
- D. Mannitol 0.5 g/kg

2. A 32-year-old man who is brain dead is being prepared for organ donation. Administration of which of the following medications is **MOST** appropriate for treatment of polyuria in this patient?

- A. Desmopressin
- B. Demeclocycline
- C. Hypertonic saline
- D. Insulin

3. A healthy 30-year-old woman is undergoing cervical spine surgery utilizing motor evoked potentials (MEP) monitoring. Which of the following medications would be expected to have the **GREATEST** depressant effect on the MEP waveform?

- A. Dexmedetomidine
- B. Isoflurane
- C. Fentanyl
- D. Nitrous oxide

4. A patient develops a seizure shortly after injection of 1 mL local anesthetic for a stellate ganglion block using the paratracheal technique. Which of the following arterial structures was **MOST** likely inadvertently punctured?

- A. External carotid
- B. Internal carotid
- C. Subclavian
- D. Vertebral

5. A 62-year-old woman with acute respiratory failure is being ventilated with the following ventilator settings:

Tidal volume	10 mL/kg actual body weight
Respiratory rate	15 breaths/min
FiO ₂	0.6
Peak inspiratory pressure	40 cmH ₂ O
Plateau pressure	30 cmH ₂ O
Positive end-expiratory pressure	10 cmH ₂ O

The results of her most recent arterial blood gas are as follows:

pH	7.34
PaO ₂	85 mmHg
PaCO ₂	46 mmHg

Given this information, which of the following ventilator changes is **MOST** appropriate to minimize lung injury?

- A. Change to pressure-controlled ventilation
- B. Decrease positive end-expiratory pressure
- C. Decrease ventilator rate
- D. Decrease tidal volume

Answer Key

1. A

2. A

3. B

4. D

5. D