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**QUESTION 1**

A 67-year-old woman is brought to the emergency department 30 minutes after she had a generalized tonic-clonic seizure. Her family says that she seemed mildly confused before her eyes rolled backward and she had the onset of uncontrollable jerking movements of her arms and legs and loss of consciousness. During the seizure, she passed urine and bit her tongue. At the scene, her vital signs were within normal limits. She has a 6-month history of a 7-kg (15-lb) weight loss despite no changes in appetite. She received the diagnosis of small cell carcinoma of the lung last week and has not begun treatment. She has hypertension well controlled with lisinopril. On arrival, she is awake but does not respond to verbal stimuli. She is not in distress. Her temperature is 37°C (98.6°F), pulse is 70/min, and blood pressure is 130/88 mmHg while supine. Examination shows no abnormalities. Laboratory studies show:

Serum	
Na ⁺	115 mEq/L
K ⁺	4 mEq/L
Cl ⁻	81 mEq/L
HCO ₃ ⁻	25 mEq/L
Urea nitrogen	9 mg/dL
Glucose	102 mg/dL
Creatinine	0.6 mg/dL
Urine	
Sodium	60 mEq/L
Potassium	20 mEq/L
Osmolality	900 mOsmol/kg H ₂ O

Which of the following is the most likely diagnosis?

- A. Adrenal insufficiency
- B. Diuretic abuse
- C. Heart failure
- D. Syndrome of inappropriate secretion of ADH (vasopressin)
- E. Water intoxication

Correct Answer: D

QUESTION 2

Which of the following is a key component of cytotoxic T cells?

- A. CD2



- B. CD4
- C. CD8
- D. CD10

Correct Answer: C

QUESTION 3

A 46-year-old woman with active ankylosing spondylitis comes to the office for a follow-up examination. The use of various conventional nonsteroidal anti-inflammatory drugs has been ineffective. Sulfasalazine treatment also has not resulted in improvement. The most appropriate next step in treatment is administration of a drug that inhibits which of the following?

- A. CD20
- B. Cyclooxygenase-2
- C. Cytotoxic T-lymphocyte antigen 4
- D. Epidermal growth factor
- E. Interleukin-1 (IL-1)
- F. Tumor necrosis factor ?

Correct Answer: F

QUESTION 4

Which of the following syndromes corresponds to: can be caused by high doses of Tetracyclines?

- A. Dubin-Johnson syndrome
- B. Fanconi's syndrome
- C. Edwards's syndrome
- D. Cri-du-chat syndrome

Correct Answer: B

QUESTION 5



Following fertilization the blastocyst secretes a hormone called?

- A. Human Chorionic Gonadotropin
- B. Oxytocin
- C. FSH
- D. LH

Correct Answer: A

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