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QUESTION 1

An otherwise healthy 45-year-old man comes to the physician because of a 3-week history of progressive epigastric heartburn and a 4.5-kg (10-lb) weight loss. The pain tends to be more severe at night and occurs 1 to 3 hours after meals during the day. He has had similar episodes with lesser intensity during the past year. Abdominal examination shows tenderness to deep palpation. Test of the stool for occult blood is positive. Endoscopy shows a bleeding 3-cm ulcer in the antrum of the stomach. A photomicrograph of Steiner silver-stained tissue (400x) from a biopsy of the gastric mucosa adjacent to the ulcer is shown. Which of the following processes is most likely to be involved?

- A. Elaboration of proteases and urease with local tissue destruction
- B. Hyperacidity and gastric ulcer development
- C. Ingestion of preformed toxins in contaminated well water
- D. Spirochete invasion of gastric cells

Correct Answer: A

QUESTION 2

Which of the following does not require the pre-cursor progesterone?

- A. Cortisol
- B. Testosterone
- C. ACTH
- D. Aldosterone

Correct Answer: C

QUESTION 3

Excessive polarization due to GABA is created due to the opening of _____ channels.

- A. Ca⁺⁺
- B. Cl⁻
- C. K⁺
- D. Na⁺

Correct Answer: B

QUESTION 4

Which of the following syndromes corresponds to: maternal genetic phenotype syndrome?

- A. Brown-Sequard syndrome
- B. Thoracic outlet syndrome
- C. Angelman's syndrome
- D. Goodpasture's syndrome

Correct Answer: C

QUESTION 5

Which of the following hormones causes increased atrial pressure and decreases sodium reabsorption in the kidneys?

- A. Atrial natriuretic peptide
- B. PTH

C. Aldosterone

D. Vasopressin

Correct Answer: A

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